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Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488

Catalog Number **A-11001**

Product data sheet

Details

Size	500 µL
Host/Isotope	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Immunogen	Gamma Immunoglobins Heavy and Light chains
Target Class	IgG
Cross Adsorption	Against human IgG and human serum prior to conjugation
Antibody Form	Whole Antibody
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	2 mg/ml
Purification	purified
Storage buffer	PBS, pH 7.5
Contains	5mM sodium azide
Storage Conditions	4° C, store in dark

Species Reactivity

Species reactivity	Mouse

Tested Applications	Dilution *
Flow Cytometry (Flow)	1-10 µg/mL
Immunocytochemistry (ICC)	1 µg/mL
Immunofluorescence (IF)	1 µg/mL

Published Applications

Immunocytochemistry (ICC)	See 23 publications below
Immunohistochemistry (Frozen) (IHC (F))	See 7 publications below
Immunohistochemistry (IHC)	See 10 publications below
Western Blot (WB)	See 4 publications below
Immunohistochemistry (Paraffin) (IHC (P))	See 6 publications below
Immunohistochemistry - Free Floating (IHC (Free))	See 2 publications below
Flow Cytometry (Flow)	See 4 publications below
Miscellaneous PubMed (MISC)	See 612 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

To minimize cross-reactivity, these goat anti-mouse IgG whole antibodies have been cross-adsorbed against human IgG and human serum. Cross-adsorption or pre-adsorption is a purification step to increase specificity of the antibody resulting in higher sensitivity and less background staining. The secondary antibody solution is passed through a column matrix containing immobilized serum proteins from potentially cross-reactive species. Only the nonspecific-binding secondary antibodies are captured in the column, and the highly specific secondaries flow through. The benefits of this extra step are apparent in multiplexing/multicolor-staining experiments (e.g., flow cytometry) where there is potential cross-reactivity with other primary antibodies or in tissue/cell fluorescent staining experiments where there are may be the presence of endogenous immunoglobulins. For a highly cross-adsorbed secondary antibody equivalent, please see product Cat. No. A11029. Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 488 dye is a bright, green-fluorescent dye with excitation ideally suited to the 488 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 488 dye is pH-insensitive over a wide molar range. Probes with high fluorescence quantum yield and high photostability allow detection of low-abundance biological structures with great sensitivity. Alexa Fluor 488 dye molecules can be attached to proteins at high molar ratios without significant self-quenching, enabling brighter conjugates and more sensitive detection. The degree of labeling for each conjugate is typically 2-8 fluorophore molecules per IgG molecule; the exact degree of labeling is indicated on the certificate of analysis for each product lot. Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining. Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically. For the fluorophore-labeled antibodies a final concentration of 1-10 µg /mL should be satisfactory for most immunohistochemistry and flow cytometry applications.

Background/Target Information

We offer an extensive line of Invitrogen™ secondary antibody conjugates with well-characterized specificity and labeled with a wide selection of premium fluorescent dyes, including Invitrogen™ Alexa Fluor™ fluorescent dyes. Fluorescent secondary antibody conjugates are useful in the detection, sorting, or purification of its specified target and ideal for fluorescence microscopy and confocal laser scanning microscopy, flow cytometry, and fluorescent western

detection. The breadth of fluorescent markers we offer allows our reagents to be tailored to almost any fluorescent detection system. Secondary antibodies may be provided in three formats: whole IgG, divalent F(ab')2 fragments, and monovalent Fab fragments. Because of the high degree of conservation in the structure of many immunoglobulin domains, most class-specific secondary antibodies must be affinity-purified and cross-adsorbed to achieve minimal cross-reaction with other immunoglobulins. Our secondary antibody conjugates are most commonly prepared by immunizing the host animal with a pooled population of immunoglobulins from the target species and can be further purified and modified (e.g., immunoaffinity chromatography, antibody fragmentation, label conjugation, etc.) to generate highly specific reagents. In the first round of purification, whole immunoglobulins binding to the immunizing antibody are recovered and mainly consist of the ~150-kDa IgG class. Further purification, for example, with Protein A or G, removes all unwanted immunoglobulin classes except the affinity-purified antibodies that react with the target-specific immunoglobulin heavy and/or light chains.

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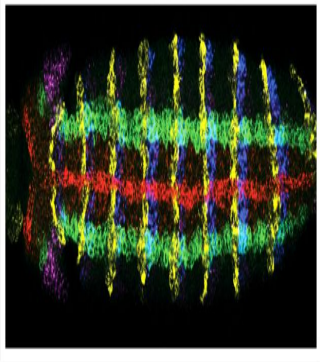
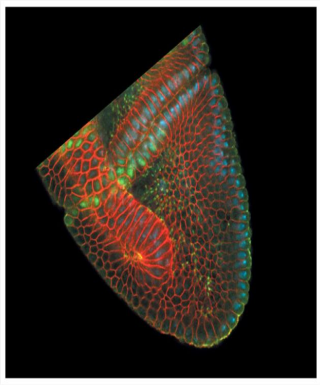
Product Images For Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488



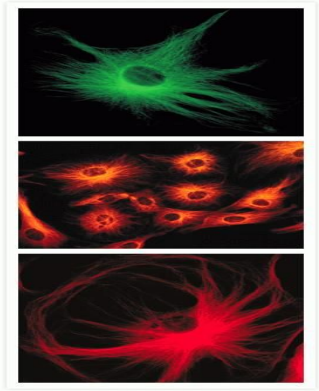
Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Simultaneous detection of expression of five genes in a whole-mount Drosophila embryo by fluorescence in situ hybridization (FISH) with five RNA probes. Red: sog labeled using aminoallyl UTP (Product # A21663, A32765) and Alexa Fluor® 647 succinimidyl ester (Product # A-20006, A20106). Green: ind labeled with DNP, followed by rabbit anti-dinitrophenyl-KLH IgG antibody (Product # A-6430) prelabeled with the Zenon® Alexa Fluor® 555 Rabbit IgG Labeling Kit (Product # Z-25305). Blue: en labeled with biotin and detected with HRP-streptavidin and Alexa Fluor® 405 tyramide (TSA™ Kit 39, Product # T30952). Yellow: wg labeled with digoxigenin and detected with sheep anti-digoxigenin IgG antibody and Alexa Fluor® 594 Donkey Anti-Sheep IgG antibody (Product # A-11016). Magenta: msh labeled with fluorescein and detected with mouse anti-fluorescein/Oregon Green® IgG2a antibody (Product # A-6421) and Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Product # A-11001, A11029). Image contributed by Dave Kosman and Ethan Bier, University of California, San Diego.



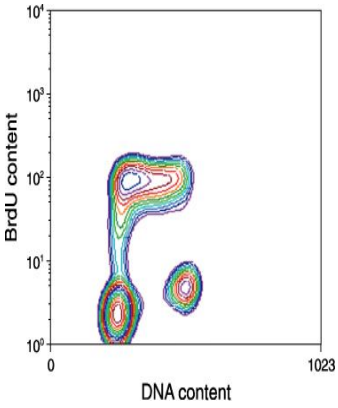
Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Formation of the cephalic furrow in the anterior end of a developing Drosophila melanogaster embryo visualized with the help of several fluorescent stains. A primary antibody to neurotactin was visualized using a red-fluorescent Cy3 dye secondary antibody (Amersham Pharmacia Biotech Ltd.). Primary antibodies to plasma membrane-bound myosin and to nuclear-localized even-skipped (Eve) protein were visualized with green-fluorescent Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Product # A-11001) and Alexa Fluor® 488 Goat Anti-Rabbit IgG antibody (Product # A-11008), respectively. The nuclei were stained with blue-fluorescent Hoechst 33342 (Product # H1399, H3570, H21492). The sample was prepared by Eric Wieschaus, and the imaging was performed by Joe Goodhouse of Princeton University.



Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Microtubules of bovine pulmonary artery endothelial cells tagged with mouse monoclonal anti-a-tubulin antibody (Product # A11126) and subsequently probed with: Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Product # A-11001, top panel), Alexa Fluor® 546 Goat Anti-Mouse IgG antibody (Product # A-11003, middle panel) or Alexa Fluor® 594 Goat Anti-Mouse IgG antibody (Product # A-11005, bottom panel). These images were acquired using a fluorescein bandpass optical filter set, a rhodamine bandpass optical filter set, and a Texas Red bandpass optical filter set, respectively.



Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in Flow

Cells were treated with 10 µM 5-bromo-2 and acute-deoxyuridine (BrdU, Product # B23151) in culture medium for one hour, then pelleted and fixed with cold 70% ethanol. After treatment with RNase and 4 M HCl (to denature the DNA), the cells were labeled with anti-BrdU (Product # A21300) and detected using green-fluorescent Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Product # A-11001). In addition, the cells were labeled with red-fluorescent propidium iodide (Product # P1304MP, P3566, P21493) to assess the total cellular DNA content. The cells were analyzed by flow cytometry using 488 nm excitation; the fluorescent signals were collected at ~525 nm for the Alexa Fluor® 488 dye and at ~675 nm for propidium iodide. Increased BrdU incorporation is indicative of actively proliferating cells.

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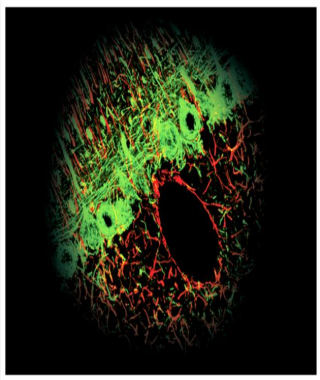
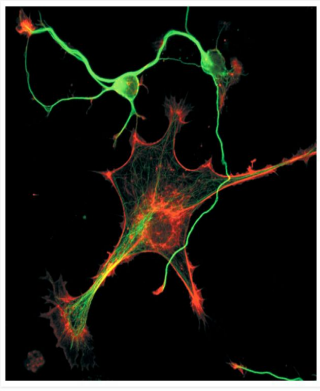


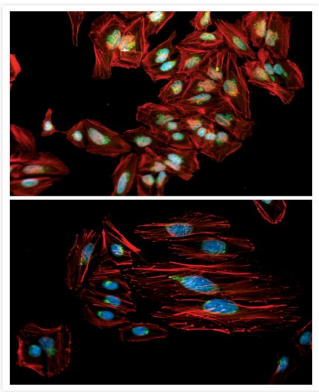
Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Filamentous structures of neuronal cells in a rat cerebellum were fluorescently labeled to differentiate the cell types. The cerebellum section was probed with primary antibodies to neurofilament and glial fibrillary acidic proteins (GFAP) and subsequently visualized with the green-fluorescent Alexa Fluor® 488 Goat Anti-Mouse IgG (Product # A-11001) and red-orange-fluorescent Alexa Fluor® 568 Goat Anti-Rabbit IgG (Product # A-11011) antibodies. This confocal micrograph was contributed by Gillian Davidson, Andrew Hubbard and Chris Guerin, Neurotoxicology Group, M.R.C Toxicology Unit, University of Leicester, Leicester, U.K.



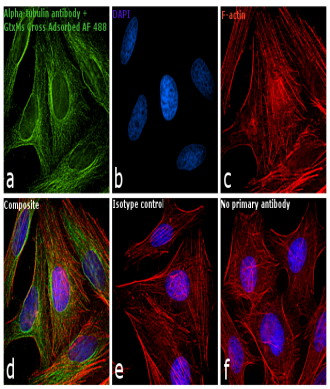
Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Confocal micrograph of the cytoskeleton of a mixed population of granule neurons and glial cells. The F-actin was stained with red-fluorescent Texas Red®-X phalloidin (Product # T7471). The microtubules were detected with a mouse monoclonal anti-ß-tubulin primary antibody and subsequently visualized with the green-fluorescent Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Product # A-11001). The image was contributed by Jonathan Zmuda, Immunomatrix, Inc.



Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Golgi and actin staining in HeLa cells. Golgi in fixed and permeabilized HeLa cells labeled with anti-golgin-97 monoclonal antibody (Product # A-21270) and visualized with green-fluorescent Alexa Fluor® 488 Goat-Anti-Mouse IgG (Product # A-11001). Actin was stained with red-fluorescent Alexa Fluor® 594 phalloidin (Product # A12381); nuclei were stained with blue-fluorescent DAPI (Product # D1306, D3571, D21490). Treatment with Image-iT® FX signal enhancer (Product # I36933) largely eliminates nonspecific dye binding (bottom) as compared to untreated slide (top).



Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Immunofluorescence analysis of Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody Alexa Fluor® 488 conjugate was performed using HeLa cells stained with alpha Tubulin (236-10501) Mouse Monoclonal Antibody (Product # A11126). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, blocked with 1% BSA for 1 hour and labeled with 2 µg/ml Mouse primary antibody for 3 hours at room temperature. Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody Alexa Fluor® 488 conjugate (Product # A-11001) was used at a concentration of 1ug/ml in phosphate buffered saline containing 0.2% BSA for 45 minutes at room temperature, for detection of alpha Tubulin in the cytoplasm (Panel a: green). Nuclei (Panel b: blue) were stained with DAPI in SlowFade® Gold Antifade Mountant (Product # S36938). F-actin was stained with Rhodamine Phalloidin (Product # R415, 1:300) (Panel c: red). Panel d represents the composite image. No nonspecific staining was observed with the secondary antibody alone (panel f), or with an isotype control (panel e). The images were captured at 60X magnification.

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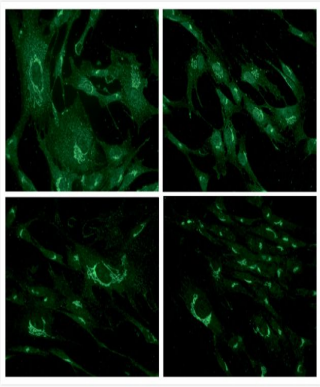
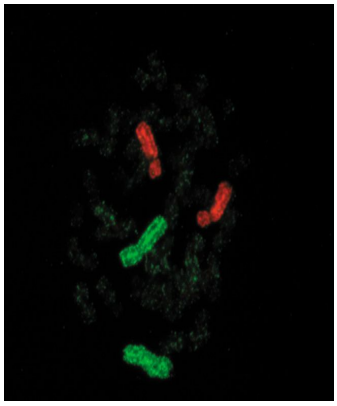


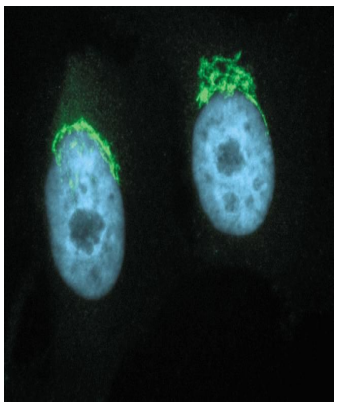
Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Increased label specificity and resolution afforded by Image-iT® FX signal enhancer. Fixed and permeabilized MRC-5 human lung fibroblast cells were labeled with mouse anti-human Golgin-97 primary antibody (Product # A-21270), then visualized with either fluorescein goat anti-mouse IgG (F2761, top row) or Alexa Fluor® 488 Goat Anti-Mouse IgG (Product # A-11001, bottom row). Cells on the right were treated with Image-iT® FX signal enhancer (Product # I36933) prior to antibody incubation. (Product # A-21270).



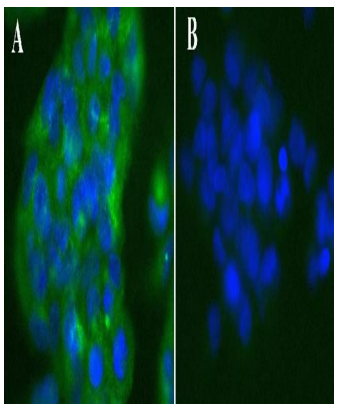
Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

Labeled paint probes hybridized to human metaphase chromosomes. A biotinylated chromosome 5 probe was detected with Alexa Fluor® 594 streptavidin (Product # S-11227), and a digoxigenin-labeled chromosome 2 probe detected with mouse anti-digoxigenin in combination with Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Product # A-11001). Image contributed by Joop Wiegant, Leiden University Medical Center, Leiden, The Netherlands.



Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

HeLa cells labeled with anti-golgin-97 antibody and detected using Alexa Fluor® 488 Goat Anti-Mouse IgG antibody. Fixed, permeabilized HeLa cells were labeled with anti-golgin-97 monoclonal antibody (Product # A-21270) and detected using Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Product # A-11001). The cells were counterstained with DAPI (D1306, D3571, D21490). (Product # A-21270).



Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in IF

NF-kappa-B (p65) Clone: 572 Product # 436700. Immunoflorescence of 4% PFA-fixed Hela cells (A) NF-kappa-B (P65) Clone: 572 Product # 436700 shown in green, Alexa Fluor® 488 secondary antibody. Nuclei are shown in blue with DAPI. (B) No primary antibody (negative control), Alexa Fluor® 488 secondary antibody, and Nuclei are shown in blue with DAPI.

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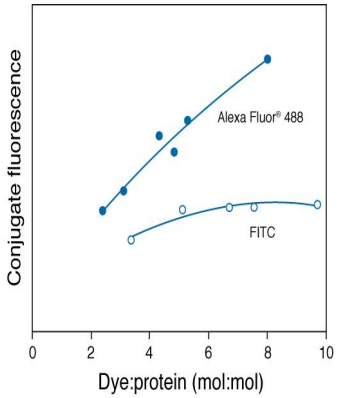

Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-11001) in N/A

Conjugate fluorescence is determined by measuring the fluorescence quantum yield of the conjugated dye relative to that of a reference dye and multiplying by the dye: protein labeling ratio.

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PubMed References For Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488

23 Immunocytochemistry References

Species / Dilution	Summary
Not Applicable / 2 mg/ml	A11001 was used in immunocytochemistry to develop a protocol to generate expandable and multipotent induced cardiac progenitor cells from mouse adult fibroblasts Nature protocols (May 2017; 12: 1029) **"Generation of multipotent induced cardiac progenitor cells from mouse fibroblasts and potency testing in ex vivo mouse embryos."** Author(s):Lalit PA,Rodriguez AM,Downs KM,Kamp TJ PubMed Article URL:http://dx.doi.org/10.1038/nprot.2017.021
Not Applicable / Not Cited	A-11001 was used in immunocytochemistry to characterize the transition from free-swimming to adherent Trichomonas vaginalis Cellular microbiology (Oct 2013; 15: 1707) **"The actin-based machinery of Trichomonas vaginalis mediates flagellate-amoeboid transition and migration across host tissue."** Author(s):Kusdian G,Woehle C,Martin WF,Gould SB PubMed Article URL:http://dx.doi.org/10.1111/cmi.12144
Not Applicable / Not Cited	A-11001 was used in immunocytochemistry to investigate how early embryonic-like cells are promoted by downregulating replication-dependent chromatin assembly Nature structural and molecular biology (Sep 2015; 22: 662) **"Early embryonic-like cells are induced by downregulating replication-dependent chromatin assembly."** Author(s):Ishiuchi T,Enriquez-Gasca R,Mizutani E,Boškovi A,Ziegler-Birling C,Rodriguez-Terrones D,Wakayama T,Vaquerizas JM,Torres-Padilla ME PubMed Article URL:http://dx.doi.org/10.1038/nsmb.3066
Not Applicable / Not Cited	A11001 was used in immunocytochemistry to identify microRNAs regulating gene expression associated with muscle development International journal of biological sciences (Nov 2017; 13: 157) **"Regulatory Axis of miR-195/497 and HMGA1-Id3 Governs Muscle Cell Proliferation and Differentiation."** Author(s):Qiu H,Zhong J,Luo L,Tang Z,Liu N,Kang K,Li L,Gou D PubMed Article URL:http://dx.doi.org/10.7150/ijbs.17440
Not Applicable / Not Cited	A-11001 was used in immunocytochemistry to elucidate the physiological significance of S857 phosphorylation. Biochemistry (Aug 2012; 51: 6786) **"Activity-dependent phosphorylation of dynamin 1 at serine 857."** Author(s):Xie W,Adayev T,Zhu H,Wegiel J,Wieraszko A,Hwang YW PubMed Article URL:http://dx.doi.org/10.1021/bi2017798
Not Applicable / 1:500	A11001 was used in immunocytochemistry to generate an induced pluripotent stem cell line from an essential thrombocythemia patient with a heterozygous MPL V501L mutation Stem cell research (Jan 2017; 18: 57) **"Generation of human iPSCs from an essential thrombocythemia patient carrying a V501L mutation in the MPL gene."** Author(s):Liu S,Ye Z,Gao Y,He C,Williams DW,Moliterno A,Spivak J,Huang H,Cheng L PubMed Article URL:http://dx.doi.org/10.1016/j.scr.2016.12.012
Not Applicable / 1:1000	A-11001 was used in immunocytochemistry to identify an interaction between TOR kinase and inositol polyphosphate signaling systems that regulates storage lipid accumulation The Plant cell (Sep 2016; null: null) **"Synergism between inositol polyphosphates and TOR kinase signaling in nutrient sensing, growth control and lipid metabolism in Chlamydomonas."** Author(s):Couso I,Evans B,Li J,Liu Y,Ma F,Diamond S,Allen DK,Umen JG PubMed Article URL:http://dx.doi.org/10.1105/tpc.16.00351

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	A-11001 was used in immunocytochemistry to examine the ability to recruit multipotential cells to the site of injury by in vivo administration of chemotactic extracellular matrix degradation products in a mammalian model of digit amputation
Not Applicable / 1:250	Proceedings of the National Academy of Sciences of the United States of America (Feb 2010; 107: 3351) **"Epimorphic regeneration approach to tissue replacement in adult mammals."** Author(s):Agrawal V,Johnson SA,Reing J,Zhang L,Tottey S,Wang G,Hirschi KK,Braunhut S,Gudas LJ,Badylak SF PubMed Article URL:http://dx.doi.org/10.1073/pnas.0905851106
	A-11001 was used in immunocytochemistry to assess how spore movement of Bacillus anthracis does not require a carrier cell and is not affected by lethal toxin in human lung models
Not Applicable / 5.0 µg/ml	Microbes and infection (Oct 2016; 18: 615) **"Bacillus anthracis spore movement does not require a carrier cell and is not affected by lethal toxin in human lung models."** Author(s):Booth JL,Duggan ES,Patel VI,Langer M,Wu W,Braun A,Coggeshall KM,Metcalf JP PubMed Article URL:http://dx.doi.org/10.1016/j.micinf.2016.06.004
	A-11001 was used in immunocytochemistry to describe a biomechanical analysis method to distinguish cancerous cells from normal cells
Not Applicable / 1:200	The Analyst (Oct 2008; 133: 1432) **"Biomechanical analysis of cancerous and normal cells based on bulge generation in a microfluidic device."** Author(s):Kim YC,Park SJ,Park JK PubMed Article URL:http://dx.doi.org/10.1039/b805355c
	A-11001 was used in immunocytochemistry to determine if CK1 has a role in Sprouty2 phosphorylation and function
Not Applicable / Not Cited	Oncogene (Jan 2015; 34: 474) **"Casein kinase 1 regulates Sprouty2 in FGF-ERK signaling."** Author(s):Yim DG,Ghosh S,Guy GR,Virshup DM PubMed Article URL:http://dx.doi.org/10.1038/onc.2013.564
	A-11001 was used in immunocytochemistry to report the optimal perfusion conditions for the growth of primary mouse embryonic fibroblasts and embryonic stem cells using a microfluidic perfusion culture system
Not Applicable / 1:500	Biomedical microdevices (Apr 2010; 12: 253) **"Growth of primary embryo cells in a microculture system."** Author(s):Villa M,Pope S,Conover J,Fan TH PubMed Article URL:http://dx.doi.org/10.1007/s10544-009-9380-y
	A-11001 was used in immunocytochemistry to identify transcription factors that regulate neurite outgrowth
Not Applicable / 1:500	Molecular and cellular neurosciences (Sep 2015; 68: 272) **"The tumor suppressor HHEX inhibits axon growth when prematurely expressed in developing central nervous system neurons."** Author(s):Simpson MT,Venkatesh I,Callif BL,Thiel LK,Coley DM,Winsor KN,Wang Z,Kramer AA,Lerch JK,Blackmore MG PubMed Article URL:http://dx.doi.org/10.1016/j.mcn.2015.08.008
	A11001 was used in immunocytochemistry to propose that N-methyl-D-aspartate subtype 2B glutamate receptor subunit expression in the adult lateral magnocellular nucleus of the anterior nidopallium is important adult courtship song
Not Applicable / 1:1000	Scientific reports (Apr 2017; 7: null) **"Overexpression of human NR2B receptor subunit in LMAN causes stuttering and song sequence changes in adult zebra finches."** Author(s):Chakraborty M,Chen LF,Fridel EE,Klein ME,Senft RA,Sarkar A,Jarvis ED PubMed Article URL:http://dx.doi.org/10.1038/s41598-017-00519-8
	A-11001 was used in immunocytochemistry to identify novel variants linked to amyotrophic lateral sclerosis
Not Applicable / Not Cited	PLoS genetics (Oct 2014; 10: null) **"Targeted exon capture and sequencing in sporadic amyotrophic lateral sclerosis."** Author(s):Couthouis J,Raphael AR,Daneshjou R,Gitler AD PubMed Article URL:http://dx.doi.org/10.1371/journal.pgen.1004704
	A-11001 was used in immunocytochemistry to investigate the role of XRCC1 protein complexes in normal neurological function and identify PARP1 as a therapeutic target in DNA strand break repair-defective disease
Not Applicable / Not Cited	Nature (Jan 2017; 541: 87) **"XRCC1 mutation is associated with PARP1 hyperactivation and cerebellar ataxia."** Author(s):Hoch NC,Hanzlikova H,Rulten SL,Tétreault M,Komulainen E,Ju L,Hornyak P,Zeng Z,Gittens W,Rey SA,Staras K,Mancini GM,McKinnon PJ,Wang ZQ,Wagner JD,Yoon G,Caldecott KW PubMed Article URL:http://dx.doi.org/10.1038/nature20790

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	A-11001 was used in immunocytochemistry to elucidate the molecular mechanism by which histone KMTs and KDMs regulate MyoD transcriptional activity
Not Applicable / Not Cited	Biochimica et biophysica acta (Aug 2015; 1849: 1081) **"Jmjd2C increases MyoD transcriptional activity through inhibiting G9a-dependent MyoD degradation."** Author(s):Jung ES,Sim YJ,Jeong HS,Kim SJ,Yun YJ,Song JH,Jeon SH,Choe C,Park KT,Kim CH,Kim KS PubMed Article URL:http://dx.doi.org/10.1016/j.bbagrm.2015.07.001
	A-11001 was used in immunocytochemistry to study protection of larval sensory neurons after a global switch in sensitivity to apoptotic signals by nanos-mediated repression of hid
Not Applicable / 1:200	Development (Cambridge, England) (Jun 2016; 143: 2147) **"Nanos-mediated repression of hid protects larval sensory neurons after a global switch in sensitivity to apoptotic signals."** Author(s):Bhogal B,Plaza-Jennings A,Gavis ER PubMed Article URL:http://dx.doi.org/10.1242/dev.132415
	A-11001 was used in immunocytochemistry to identify PEG3 as a KRAB-containing zinc finger protein that interacts with KAP1
Not Applicable / 1:200	PloS one (Jun 2017; 11: null) **"PEG3 Interacts with KAP1 through KRAB-A."** Author(s):He H,Ye A,Kim H,Kim J PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0167541
	A-11001 was used in immunocytochemistry to study the drive of glutathione (GSH) synthesis underlying intrinsic carboplatin resistance of ovarian clear cell carcinoma (OCCC) by HNF1beta
Not Applicable / Not Cited	Tumour biology : the journal of the International Society for Oncodevelopmental Biology and Medicine (Apr 2016; 37: 4813) **"HNF1 drives glutathione (GSH) synthesis underlying intrinsic carboplatin resistance of ovarian clear cell carcinoma (OCCC)."** Author(s):Lopes-Coelho F,Gouveia-Fernandes S,Gonçalves LG,Nunes C,Faustino I,Silva F,Félix A,Pereira SA,Serpa J PubMed Article URL:http://dx.doi.org/10.1007/s13277-015-4290-5
	A-11001 was used in immunocytochemistry to describe how to isolate a specific cell population from differentiating pluripotent stem cells
Not Applicable / 1:1000	Nature protocols (Oct 2014; 9: 2411) **"Molecular beacon-enabled purification of living cells by targeting cell type-specific mRNAs."** Author(s):Wile BM,Ban K,Yoon YS,Bao G PubMed Article URL:http://dx.doi.org/10.1038/nprot.2014.154
	A-11001 was used in immunocytochemistry to characterize the PmpG-1-vault vaccine-induced immune response
Not Applicable / 1:400	Vaccine (Jan 2015; 33: 298) **"Activation of the NLRP3 inflammasome by vault nanoparticles expressing a chlamydial epitope."** Author(s):Zhu Y,Jiang J,Said-Sadier N,Boxx G,Champion C,Tetlow A,Kickhoefer VA,Rome LH,Ojcius DM,Kelly KA PubMed Article URL:http://dx.doi.org/10.1016/j.vaccine.2014.11.028
	A11001 was used in immunocytochemistry to identify and evaluate interferon antiviral effector genes
Not Applicable / Not Cited	Frontiers in microbiology (Oct 2017; 8: null) **"HELZ2 Is an IFN Effector Mediating Suppression of Dengue Virus."** Author(s):Fusco DN,Pratt H,Kandilas S,Cheon SS,Lin W,Cronkite DA,Basavappa M,Jeffrey KL,Anselmo A,Sadreyev R,Yapp C,Shi X,O'Sullivan JF,Gerszten RE,Tomaru T,Yoshino S,Satoh T,Chung RT PubMed Article URL:http://dx.doi.org/10.3389/fmicb.2017.00240

7 Immunohistochemistry (Frozen) References

Species / Dilution	Summary
	A11001 was used in immunohistochemistry - frozen section to characterize the effects of mild skin massage on cell behavior
Not Applicable / 1:100	PloS one (Aug 2017; 12: null) **"Effects of a skin-massaging device on the ex-vivo expression of human dermis proteins and in-vivo facial wrinkles."** Author(s):Caberlotto E,Ruiz L,Miller Z,Poletti M,Tadlock L PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0172624

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	A-11001 was used in immunohistochemistry - frozen section to test if amelogenin enhances the repair of skeletal ligaments
Not Applicable / 1:200	Journal of cellular and molecular medicine (May 2016; 20: 815) **"Skeletal ligament healing using the recombinant human amelogenin protein."** Author(s):Hanhan S,Ejzenberg A,Goren K,Saba F,Suki Y,Sharon S,Shilo D,Waxman J,Spitzer E,Shahar R,Atkins A,Liebergall M,Blumenfeld A,Deutsch D,Haze A PubMed Article URL:http://dx.doi.org/10.1111/jcmm.12762
	A11001 was used in immunohistochemistry - frozen section to evaluate the mechanisms of retinal degeneration
Not Applicable / Not Cited	Molecular vision (Apr 2017; 23: 90) **"Reduced phosphoCREB in Müller glia during retinal degeneration in rd10 mice."** Author(s):Dong E,Bachleda A,Xiong Y,Osawa S,Weiss ER PubMed Article URL:http://dx.doi.org/null
	A-11001 was used in immunohistochemistry - frozen section to elucidate the critical role of TRPV2 in maintenance of cardiac function and structure in mice
Not Applicable / Not Cited	Nature communications (May 2014; 5: null) **"TRPV2 is critical for the maintenance of cardiac structure and function in mice."** Author(s):Katanosaka Y,Iwasaki K,Ujihara Y,Takatsu S,Nishitsuji K,Kanagawa M,Sudo A,Toda T,Katanosaka K,Mohri S, Naruse K PubMed Article URL:http://dx.doi.org/10.1038/ncomms4932
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Not Applicable / 1:500	Scientific reports (Mar 2017; 7: null) **"Neural Crest Cells Contribute an Astrocyte-like Glial Population to the Spleen."** Author(s):Barlow-Anacker AJ,Fu M,Erickson CS,Bertocchini F,Gosain A PubMed Article URL:http://dx.doi.org/10.1038/srep45645
	A-11001 was used in immunohistochemistry - frozen section to investigate the effect of IgM-Fc receptor-ablation on autoimmunity
Not Applicable / Not Cited	International immunology (Dec 2014; 26: 659) **"Enhanced auto-antibody production and Mott cell formation in FcR-deficient autoimmune mice."** Author(s):Honjo K,Kubagawa Y,Suzuki Y,Takagi M,Ohno H,Bucy RP,Izui S,Kubagawa H PubMed Article URL:http://dx.doi.org/10.1093/intimm/dxu070
	A-11001 was used in immunohistochemistry - frozen section to characterize long-term potentiation and its magnitude which is controlled by a molecular brake
Not Applicable / Not Cited	Nature communications (Nov 2015; 5: null) **"A molecular brake controls the magnitude of long-term potentiation."** Author(s):Wang Y,Zhu G,Briz V,Hsu YT,Bi X,Baudry M PubMed Article URL:http://dx.doi.org/10.1038/ncomms4051

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	A-11001 was used in immunohistochemistry to develop and characterize 'spaghetti monster' fluorescent proteins
Not Applicable / 1:500	Nature methods (Jun 2015; 12: 568) **"High-performance probes for light and electron microscopy."** Author(s):Viswanathan S,Williams ME,Bloss EB,Stasevich TJ,Speer CM,Nern A,Pfeiffer BD,Hooks BM,Li WP,English BP, Tian T,Henry GL,Macklin JJ,Patel R,Gerfen CR,Zhuang X,Wang Y,Rubin GM,Looger LL PubMed Article URL:http://dx.doi.org/10.1038/nmeth.3365
	A-11001 was used in immunohistochemistry to test if spreading depression disrupts myelin via interferon gamma and oxidative stress.
Not Applicable / Not Cited	Experimental neurology (Feb 2015; 264: 43) **"Spreading depression transiently disrupts myelin via interferon-gamma signaling."** Author(s):Pusic AD,Mitchell HM,Kunkler PE,Klauer N,Kraig RP PubMed Article URL:http://dx.doi.org/10.1016/j.expneurol.2014.12.001
	A-11001 was used in immunohistochemistry to test if aging affects the regenerative potential of zebrafish
Not Applicable / 1:1000	Biology open (Aug 2012; 1: 739) **"Life-long preservation of the regenerative capacity in the fin and heart in zebrafish."** Author(s):Itou J,Kawakami H,Burgoyne T,Kawakami Y PubMed Article URL:http://dx.doi.org/10.1242/bio.20121057

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Not Applicable / Not Cited	A-11001 was used in immunohistochemistry to study the role of Kr-h during early Drosophila development Developmental biology (Apr 2004; 268: 64) **"Krüppel-homolog is essential for the coordination of regulatory gene hierarchies in early Drosophila development."** Author(s):Beck Y,Pecasse F,Richards G PubMed Article URL:http://dx.doi.org/10.1016/j.ydbio.2003.12.017
Not Applicable / 1:500	A-11001 was used in immunohistochemistry to determine protection against microbial infection in mouse and worm models of Alzheimer's disease by the amyloid-beta peptide Science translational medicine (May 2016; 8: null) **"Amyloid- peptide protects against microbial infection in mouse and worm models of Alzheimer's disease."** Author(s):Kumar DK,Choi SH,Washicosky KJ,Eimer WA,Tucker S,Ghofrani J,Lefkowitz A,McColl G,Goldstein LE,Tanzi RE,Moir RD PubMed Article URL:http://dx.doi.org/10.1126/scitranslmed.aaf1059
Not Applicable / 1:50	A-11001 was used in immunohistochemistry to study the role of autophagy in normothermic and hypothermic spinal cord ischemia Journal of vascular surgery (Nov 2015; 62: 1312) **"Autophagy-mediated stress response in motor neurons after hypothermic spinal cord ischemia in rabbits."** Author(s):Fujita S,Sakurai M,Baba H,Abe K,Tominaga R PubMed Article URL:http://dx.doi.org/10.1016/j.jvs.2014.03.297
Not Applicable / 1:2000	A-11001 was used in immunohistochemistry to study the release of synaptic vesicles eLife (Nov 2013; 2: null) **"Position of UNC-13 in the active zone regulates synaptic vesicle release probability and release kinetics."** Author(s):Zhou K,Stawicki TM,Goncharov A,Jin Y PubMed Article URL:http://dx.doi.org/10.7554/eLife.01180
Not Applicable / 1:500	A-11001 was used in immunohistochemistry to compare intestinal stem cells from different subregions eLife (Aug 2013; 2: null) **"Physiological and stem cell compartmentalization within the Drosophila midgut."** Author(s):Marianes A,Spradling AC PubMed Article URL:http://dx.doi.org/10.7554/eLife.00886
Not Applicable / Not Cited	A11001 was used in immunohistochemistry to assess the role of P2X7 in neurodegenerative amyotrophic lateral sclerosis disease progression PeerJ (Aug 2017; 5: null) **"P2X7 antagonism using Brilliant Blue G reduces body weight loss and prolongs survival in female SOD1G93A amyotrophic lateral sclerosis mice."** Author(s):Bartlett R,Sluyter V,Watson D,Sluyter R,Yerbury JJ PubMed Article URL:http://dx.doi.org/10.7717/peerj.3064
Not Applicable / 1:400	A-11001 was used in immunohistochemistry to characterize mice with a forebrain-specific loss of O-GlcNAc glycosylation Proceedings of the National Academy of Sciences of the United States of America (Dec 2016; 113: 15120) **"Loss of O-GlcNAc glycosylation in forebrain excitatory neurons induces neurodegeneration."** Author(s):Wang AC,Jensen EH,Rexach JE,Vinters HV,Hsieh-Wilson LC PubMed Article URL:http://dx.doi.org/10.1073/pnas.1606899113

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Not Applicable / Not Cited	A-11001 was used in western blot to describe a slice culture method to study changes to the neurons and blood brain barrier. Journal of visualized experiments : JoVE (Oct 2014; null: null) **"The analysis of neurovascular remodeling in entorhino-hippocampal organotypic slice cultures."** Author(s):Chip S,Zhu X,Kapfhammer JP PubMed Article URL:http://dx.doi.org/10.3791/52023
Not Applicable / 1:1000	A-11001 was used in western blot to test if targeting tropomysin receptor kinase B reduces radiation-induced cognitive deficits Experimental neurology (May 2016; 279: 178) **"Cognitive impairments following cranial irradiation can be mitigated by treatment with a tropomyosin receptor kinase B agonist."** Author(s):Yang P,Leu D,Ye K,Srinivasan C,Fike JR,Huang TT PubMed Article URL:http://dx.doi.org/10.1016/j.expneurol.2016.02.021

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	A11001 was used in western blot to investigate the role of nuclear factor erythroid 2-related factor in cigarette smoking-induced cerebrobvascular/blood brain barrier impairments
Not Applicable / Not Cited	Redox biology (Aug 2017; 12: 58) **"Role of Nrf2 and protective effects of Metformin against tobacco smoke-induced cerebrovascular toxicity."** Author(s):Prasad S,Sajja RK,Kaisar MA,Park JH,Villalba H,Liles T,Abbruscato T,Cucullo L PubMed Article URL:http://dx.doi.org/10.1016/j.redox.2017.02.007
	A-11001 was used in immunocytochemistry and western blot to analyze telomere markers and alternative lengthening in BRCA1 defective cells
Not Applicable / 1:5000	Genes, chromosomes and cancer (Nov 2016; 55: 864) **"Analysis of alternative lengthening of telomere markers in BRCA1 defective cells."** Author(s):Kargaran PK,Yasaei H,Anjomani-Virmouni S,Mangiapane G,Slijepcevic P PubMed Article URL:http://dx.doi.org/10.1002/gcc.22386

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Species / Dilution	Summary
	A-11001 was used in immunohistochemistry - paraffin section to study the role of RE1-silencing transcription factor in zebrafish neurons.
Not Applicable / 1:200	Developmental biology (May 2015; 401: 220) **"Rest represses maturation within migrating facial branchiomotor neurons."** Author(s):Love CE,Prince VE PubMed Article URL:http://dx.doi.org/10.1016/j.ydbio.2015.02.021
	A-11001 was used in immunohistochemistry - paraffin section to examine the differentiation potential of adult mammary stem cells
Not Applicable / 1:500	Nature communications (Oct 2016; 7: null) **"Single-cell lineage tracing in the mammary gland reveals stochastic clonal dispersion of stem/progenitor cell progeny."** Author(s):Davis FM,Lloyd-Lewis B,Harris OB,Kozar S,Winton DJ,Muresan L,Watson CJ PubMed Article URL:http://dx.doi.org/10.1038/ncomms13053
	A-11001 was used in immunohistochemistry - paraffin section to study the brain of the inshore hagfish.
Not Applicable / 1:400	Nature (Mar 2016; 531: 97) **"Evidence from cyclostomes for complex regionalization of the ancestral vertebrate brain."** Author(s):Sugahara F,Pascual-Anaya J,Oisi Y,Kuraku S,Aota S,Adachi N,Takagi W,Hirai T,Sato N,Murakami Y,Kuratani S PubMed Article URL:http://dx.doi.org/10.1038/nature16518
	A-11001 was used in immunohistochemistry - paraffin section to determine the effect of beta-catenin loss during lens development
Not Applicable / 1:500	Developmental biology (Sep 2008; 321: 420) **"Differential requirement for beta-catenin in epithelial and fiber cells during lens development."** Author(s):Cain S,Martinez G,Kokkinos MI,Turner K,Richardson RJ,Abud HE,Huelsken J,Robinson ML,de Iongh RU PubMed Article URL:http://dx.doi.org/10.1016/j.ydbio.2008.07.002
	A-11001 was used in immunohistochemistry - paraffin section to study the role of E-cadherin endosomal trafficking to development of zebrafish
Not Applicable / 1:1000	Developmental cell (Mar 2013; 24: 486) **"Pou5f1-dependent EGF expression controls E-cadherin endocytosis, cell adhesion, and zebrafish epiboly movements."** Author(s):Song S,Eckerle S,Onichtchouk D,Marrs JA,Nitschke R,Driever W PubMed Article URL:http://dx.doi.org/10.1016/j.devcel.2013.01.016
	A-11001 was used in immunohistochemistry - paraffin section to examine the expression of immunoglobulin superfamily member 1 in rat
Not Applicable / 1:300	The Journal of endocrinology (Sep 2015; 226: 181) **"Spatial and temporal expression of immunoglobulin superfamily member 1 in the rat."** Author(s):Joustra SD,Meijer OC,Heinen CA,Mol IM,Laghmani el H,Sengers RM,Carreno G,van Trotsenburg AS,Biermasz NR,Bernard DJ,Wit JM,Oostdijk W,van Pelt AM,Hamer G,Wagenaar GT PubMed Article URL:http://dx.doi.org/10.1530/JOE-15-0204

2 Immunohistochemistry - Free Floating References

Species / Dilution	Summary

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Not Applicable / Not Cited	Nature neuroscience (Aug 2016; 19: 1085) **"Neuronal activity enhances tau propagation and tau pathology in vivo."** Author(s):Wu JW,Hussaini SA,Bastille IM,Rodriguez GA,Mrejeru A,Rilett K,Sanders DW,Cook C,Fu H,Boonen RA,Herman M,Nahmani E,Emrani S,Figueroa YH,Diamond MI,Clelland CL,Wray S,Duff KE PubMed Article URL:http://dx.doi.org/10.1038/nn.4328
	A-11001 was used in immunohistochemistry - free floating to study factors that regulate arousal negatively and induce states of quiescence using Drosophila
Not Applicable / 1:200	The Journal of neuroscience : the official journal of the Society for Neuroscience (Sep 2015; 35: 12792) **"Identified Serotonin-Releasing Neurons Induce Behavioral Quiescence and Suppress Mating in Drosophila."** Author(s):Pooryasin A,Fiala A PubMed Article URL:http://dx.doi.org/10.1523/JNEUROSCI.1638-15.2015

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Not Applicable / Not Cited	Molecular cancer therapeutics (Sep 2015; 14: 2004) **"LY2606368 Causes Replication Catastrophe and Antitumor Effects through CHK1-Dependent Mechanisms."** Author(s):King C,Diaz HB,McNeely S,Barnard D,Dempsey J,Blosser W,Beckmann R,Barda D,Marshall MS PubMed Article URL:http://dx.doi.org/10.1158/1535-7163.MCT-14-1037
	A-11001 was used in flow cytometry to study the effect of natural immune responses to malondialdehyde-modified LDL in protection against atherosclerosis.
Not Applicable / Not Cited	Innate immunity (May 2015; 21: 370) **"Immunization with malondialdehyde-modified low-density lipoprotein (LDL) reduces atherosclerosis in LDL receptor-deficient mice challenged with Porphyromonas gingivalis."** Author(s):Turunen SP,Kummu O,Wang C,Harila K,Mattila R,Sahlman M,Pussinen PJ,Hörkkö S PubMed Article URL:http://dx.doi.org/10.1177/1753425914542444
	A-11001 was used in flow cytometry to study the contribution of Rev-erb-alpha to muscle oxidative function
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