3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

Anti-Neurofilament 200
produced in rabbit, IgG fraction of antiserum

Catalog Number **N4142**

Product Description

Anti-Neurofilament 200 is produced in rabbit using as immunogen purified neurofilament 200 from bovine spinal cord. Whole antiserum is purified to provide an IgG fraction of antiserum.

Anti-Neurofilament 200 is evaluated for specificity by immunofluorescence and immunohistochemistry using formalin-fixed, paraffin-embedded human or animal tissue sections. The antibody may also be used in microarray assays. The antibody shows wide species cross-reactivity. The antibody localizes the 200 kDa neurofilament polypeptide in immunoblotting.

Intermediate filaments (IFs), with characteristic 10 nm diameter are a distinct class of heterogenous protein subunits apparent by both immunological and biochemical criteria. IFs differ significantly from the other cytoskeletal elements of the cell, namely microtubules and microfilaments and are components of most eukaryotic cells. The neurofilaments are one of the five major groups of IFs and are found predominantly in cells or tissues of neuronal origin. They are composed of three major proteins of apparent molecular weights 68kDa, 160kDa, and 200 kDa.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, with 15 mM sodium azide as a preservative.

Precautions

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage

Store at –20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, solution may be frozen in working aliquots at –20 °C. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

Product Profile

Protein concentration: At least 8.0 mg/ml by $E_{280}^{1\%}$ = 14.0.

Immunoblotting: a minimum working antibody dilution of 1:1,000 was determined using bovine spinal cord extract.

Immunohistochemistry: a minimum working antibody dilution of 1:80 using formalin-fixed, paraffin-embedded sections of animal cerebellum sections

Note: In order to obtain optimum results, it is recommended that each individual user determine their working dilutions by titration assay.

MG,KAA,PHC 06/09-1