



Catalog Number GTX13523 **Package:**50 µg

[Reference](#) (4)

Product Name LAMP1 antibody [LY1C6]

Full Name lysosomal-associated membrane protein 1

Synonyms LGP120

Product Description Mouse monoclonal [LY1C6] to LAMP1 - Lysosome Marker

Background Lysosome associated membrane proteins (LAMP1), also known as Igp120 or IgpA, is a type 1 integral membrane protein that is transported from trans-Golgi network to endosomes and then lysosomes. Upon cell activation, LAMP1 transfer to the plasma membrane is dependent on a carboxyl-terminal tyrosine based motif (YXX). Perturbation in the spacing between the tyrosine based motif relative to the membrane abolishes lysosome localization of LAMP1. This mutant protein then cycles between the plasma membrane and the endosome. Cell surface LAMP1 and LAMP2 have been shown to promote adhesion of human peripheral blood mononuclear cells (PBMC) to vascular endothelium, therefore they are possibly involved in the adhesion of PBMC to the site of inflammation.

Host Mouse

Clonality Monoclonal

Clone Name LY1C6

Isotype IgG1

Target LAMP1

Immunogen This antibody was derived from mice that were immunized with rat liver lysosome membranes as the source of the full length LAMP1 protein.

Antigen Species Rat

Species Reactivity Human, Mouse, Rat, Hamster

Applications ICC/IF, IHC, IP, WB

Application Note ICC: Use at a dilution of 1/100 - 1/750. IP: Use at 5µg/ml. WB: Use at a concentration of 1 µg/ml. IHC: Use at an dependent assay. Detects a band of approximately 120 kDa. Cross react to human only validated by ICC/IF. Not tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

Positive Controls Highly purified rat lysosomal membrane preparations

Cellular Localization Type I membrane protein. Lysosomal. This protein shuttles between lysosomes, endosomes, and the plasma membrane.

Form Supplied Liquid

Purification Protein G purified

Concentration 1 mg/ml

Storage Buffer Preservative: None Constituents: 50% Glycerol, PBS, 0.1mM PMSF. pH 7.2

Storage Instruction Keep as concentrated solution. Store at 4°C short term. For extended storage aliquot and store at -20°C or below. Avoid freeze-thaw cycles.

Notes For maximum product recovery centrifuge the product vial before removing cap.

ResearchArea [Cell Biology](#) > [Autophagy](#)

Application Reference

1. Bayod S (2014) *J Physiol Pharmacol* 229-39
2. Tan SC (2011) *Mol Biol Cell* 467-77

3. Butler D (2011) *PLoS One* e20501

4. Salipante SJ (2009) *Mol Cell Biol* 4394-405