abcam

Product datasheet

Anti-LAMP2 antibody [M3/84] (Phycoerythrin) ab95751

1 Image

Overview

Product name	Anti-LAMP2 antibody [M3/84] (Phycoerythrin)
Description	Rat monoclonal [M3/84] to LAMP2 (Phycoerythrin)
Host species	Rat
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse
Immunogen	Tissue, cells or virus corresponding to Mouse LAMP2. Membrane glycoproteins from C57BL/6 Mouse peritoneal exudate cells. Database link: P17047
Positive control	Mouse bone marrow and thioglycolate induced peritoneal exudate cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS, 150mM Sodium chloride, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	M3/84
Isotype	IgG1
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab95751** in the following tested applications.

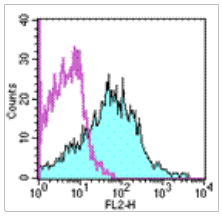
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 0.06-0.5µg for 10^{5-8} cells. A final volume of 100 µL is recommended for staining the cell sample. ab154449 - Rat monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function	Implicated in tumor cell metastasis. May function in protection of the lysosomal membrane from autodigestion, maintenance of the acidic environment of the lysosome, adhesion when expressed on the cell surface (plasma membrane), and inter-and intracellular signal transduction. Protects cells from the toxic effects of methylating mutagens.
Tissue specificity	Isoform LAMP-2A is highly expressed in placenta, lung and liver, less in kidney and pancreas, low in brain and skeletal muscle. Isoform LAMP-2B is highly expressed in skeletal muscle, less in brain, placenta, lung, kidney and pancreas, very low in liver.
Involvement in disease	Defects in LAMP2 are the cause of Danon disease (DAND) [MIM:300257]; also known as glycogen storage disease type 2B (GSD2B). DAND is a lysosomal glycogen storage disease characterized by the clinical triad of cardiomyopathy, vacuolar myopathy and mental retardation. It is often associated with an accumulation of glycogen in muscle and lysosomes.
Sequence similarities	Belongs to the LAMP family.
Post-translational modifications	O- and N-glycosylated; some of the 16 N-linked glycans are polylactosaminoglycans.
Cellular localization	Cell membrane. Endosome membrane. Lysosome membrane. This protein shuttles between lysosomes, endosomes, and the plasma membrane.
Form	Alternative splicing produces 3 isoforms.

Images



Flow Cytometry - Anti-LAMP2 antibody [M3/84] (Phycoerythrin) (ab95751)

Staining of Mouse thioglycolate induced peritoneal exudate cells with staining buffer (autofluorescence) (open histogram), or 0.06 µg of ab95751 (filled histogram). Total viable cells were used for analysis.

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