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Certificate of Analysis and Data Sheet

Rabbit anti Lysosome Associated Membrane Protein-2 (LAMP-2)

Catalog No.
MD-14-0628

Isotype:
Rabbit Ig G

Target Speceis:
Mouse/Human

Accession No:
NP_034815

Description

Lysosome-associated membrane glycoprotein 2 is 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. 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. Defects in LAMP2 are the cause of Danon disease (DAND) [MIM:300257]; also known as glycogen storage disease type 2B (GSD2B).

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			*	
Western Blotting (1)	*			1 – 2ug/ml
Enzyme Immunoassay (EIA)			*	
Immunohistochemistry (IHC)			*	
Immunocytochemistry (ICC)			*	
Immunoprecipitation (IP)			*	
Flow Cytometry (FACS)			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.



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Preparation

Immunogen was a synthetic peptide corresponding to 17 amino acids near the center of human LAMP-2 (Genbank accession No. NP_034815). This antibody is Affinity Purified, Liquid. Purification was by Immunoaffinity chromatography. Buffer is PBS. Preservative is 0.02% Sodium Azide.

Specificity

Reacts with human and mouse LAMP-2. Despite its predicted size, LAMP-2 migrates at 115 kDa in SDS-PAGE.

Western Blot: HepG2 cell lysate can be used as a positive control.

Storage

Store (up to one year) at 2-8°C.

References

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3. Kamada, Y., et al., (2000), "Tor-mediated induction of autophagy via Apg1 protein kinase complex", J. Cell Biol., **150**: 1507-1513
4. Granger, B.L., et al., (1990), "Characterization and cloning of the Igp110, a lysosomal glycoprotein from mouse and rat cells", J. Biol. Chem., **265**: 12036-12043
5. Tanaka, Y., et al., (2000), "Accumulation of autophagic vacuoles and cardiopathy in LAMP-2-deficient mice", Nature, 902-906
6. Nishino, I., et al., (2000), "Primary LAMP-2 deficiency causes X-linked vacuolar cardiomyopathy and myopathy (Danon disease)", Nature, 906-910
7. Gough, N.R., et al., (1995), "The family of LAMP-2 proteins arises by alternative splicing from a single gene: characterization of the avian LAMP-2 gene and identification of mammalian homologs of LAMP-2b and LAMP-2c", DNA Cell Biol., **14**: 863-867

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