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PRODUCT DATASHEET

Anti-Lysosomal Associated Membrane Protein 1 (LAMP1) Antibody

Product Details

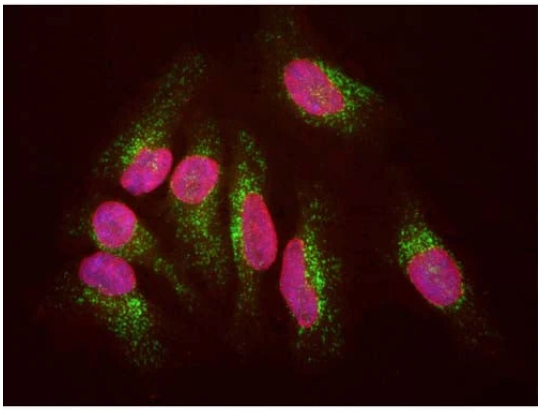
Available Variants	100 µg (SKU:M-1652-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	LAMP1
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, WB
Dilution Ranges	WB: 1:5000-1:10000
Species Reactivity	Human
Immunogen	Recombinant LAMP1 expressed and purified from E. coli.
Specificity	The antibody reacts with a diffuse band at ~90 kDa to 120 kDa by Western blot on HeLa cell extract. It has also been used successfully for immunocytochemistry.
Molecular Weight	90-120 kDa
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.

UniProt ID	P11279 UniProt Summary: Lysosomal membrane glycoprotein which plays an important role in lysosome biogenesis, lysosomal pH regulation, autophagy and cholesterol homeostasis. Acts as an important regulator of lysosomal lumen pH regulation by acting as a direct inhibitor of the proton channel TMEM175, facilitating lysosomal acidification for optimal hydrolase activity. Also plays an important role in NK-cells cytotoxicity. Mechanistically, participates in cytotoxic granule movement to the cell surface and perforin trafficking to the lytic granule. In addition, protects NK-cells from degranulation-associated damage induced by their own cytotoxic granule content. Presents carbohydrate ligands to selectins.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	3916

Product Images



Western blot of HeLA cell crude extract stained with M-1652-100. The antibody binds to a diffuse band running at between 90 and 120 kDa.



HeLa cell staining with M-1652-100 (green), and counterstained with chicken polyclonal antibody to Lamin A/C (green) and DNA (blue). The LAMP1 antibody reveals strong cytoplasmic staining of lysosomes and early endosomes, while the Lamin A/C antibody binds to the nuclear lamina. Since both DNA (blue) and Lamin A/C (red) are associated with the nuclear compartment, this region appears crimson in this image.