LAMP1 Mouse mAb

Catalog No: #64436

Package Size: #64436-1 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

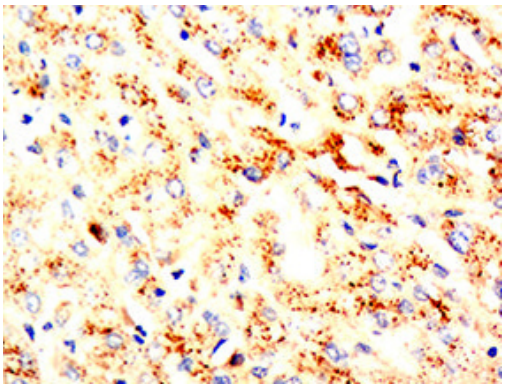
Description

Product Name	LAMP1 Mouse mAb
Host Species	Mouse
Clonality	Monoclonal
Clone No.	MR4559
Isotype	Mouse IgG1
Applications	ELISA,WB,IHC,IF,FC
Species Reactivity	Human,Mouse,Monkey
Immunogen Description	Purified recombinant fragment of human LAMP1 (AA: 182-414) expressed in E. Coli.
Target Name	LAMP1
Other Names	LAMPA; CD107a; LGP120
Calculated MW	45kDa
Formulation	Purified antibody in PBS with 0.05% sodium azide
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

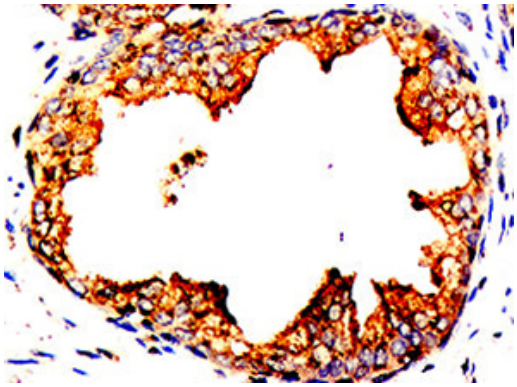
Application Details

IHC 1:200-1:1000 IF 1:200-1:1000 FCM 1:200-1:400 ELISA 1:10000

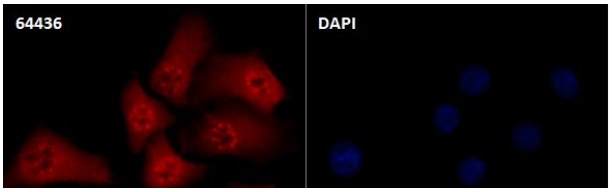
Images



Formalin-fixed, paraffin-embedded human liver tissues stained for LAMP1 using 64436 at 1/200 dilution in immunohistochemical analysis.

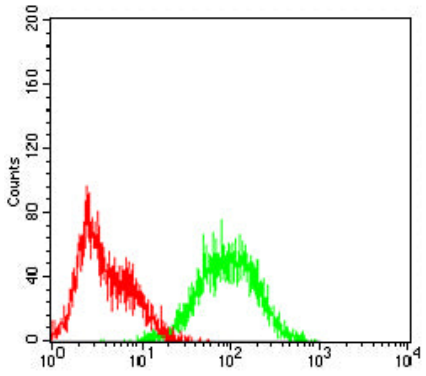


Formalin-fixed, paraffin-embedded human prostatic cancer tissues stained for LAMP1 using 64436 at 1/200 dilution in immunohistochemical analysis.

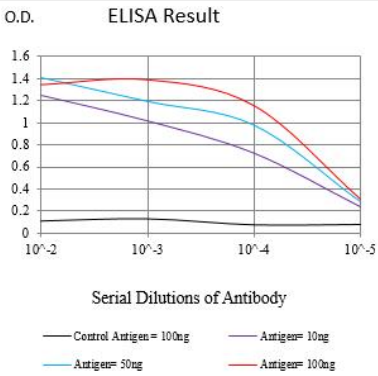


Immunocytochemistry/ Immunofluorescence LAMP1 antibody (64436) ICC/IF staining of LAMP1 in Hela cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 64436 at a working dilution of 1/100. The secondary antibody was Alexa Fluor 647 goat anti mouse, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.



Flow cytometric analysis of Hek293 cells using LAMP1 mouse mAb (green) and negative control (red).



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

Background

Lysosomal membrane glycoprotein which plays an important role in lysosome biogenesis, lysosomal pH regulation, autophagy and cholesterol homeostasis (PubMed:37390818). 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 (PubMed:37390818). Also plays an important role in NK-cells cytotoxicity (PubMed:2022921, PubMed:23632890). Mechanistically, participates in cytotoxic granule movement to the cell surface and perforin trafficking to the lytic granule (PubMed:23632890). In addition, protects NK-cells from degranulation-associated damage induced by their own cytotoxic granule content (PubMed:23847195). Presents carbohydrate ligands to selectins (PubMed:7685349).5 publications (Microbial infection) Acts as a receptor for Lassa virus glycoprotein (PubMed:24970085, PubMed:25972533, PubMed:27605678, PubMed:28448640). Also promotes fusion of the virus with host membrane in less acidic endosomes (PubMed:29295909).5 publications (Microbial infection) Supports the FURIN-mediated cleavage of mumps virus fusion protein F by interacting with both FURIN and the unprocessed form but not the processed form of the viral protein F.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.