

LAMP1 / CD107a Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11470**Specification**

LAMP1 / CD107a Antibody (Internal) - Product Information

Application	WB, IHC-P, IF
Primary Accession	P11279
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200

LAMP1 / CD107a Antibody (Internal) - Additional Information**Gene ID** 3916**Other Names**

Lysosome-associated membrane glycoprotein 1, LAMP-1, Lysosome-associated membrane protein 1, CD107 antigen-like family member A, CD107a, LAMP1

Target/Specificity

15 amino acid peptide from near the center of human LAMP-1

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

LAMP1 / CD107a Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

LAMP1 / CD107a Antibody (Internal) - Protein Information**Name** LAMP1 {ECO:0000303|PubMed:23632890, ECO:0000312|HGNC:HGNC:6499}**Function**

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).

Cellular Location

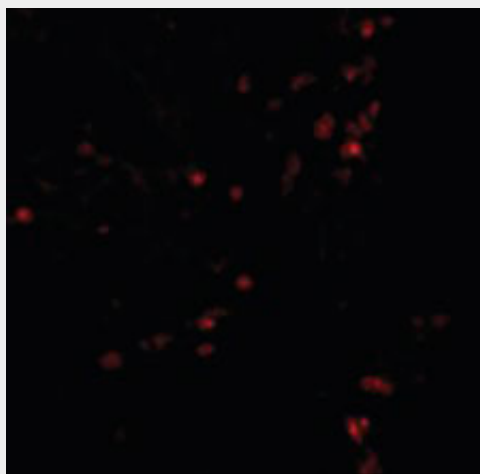
Lysosome membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Late endosome membrane; Single-pass type I membrane protein. Cell membrane; Single-pass type I membrane protein. Cytolytic granule membrane; Single-pass type I membrane protein. Note=This protein shuttles between lysosomes, endosomes, and the plasma membrane (By similarity). Colocalizes with OSBPL1A at the late endosome (PubMed:16176980). {ECO:0000250|UniProtKB:P05300, ECO:0000269|PubMed:16176980, ECO:0000269|PubMed:17897319}

LAMP1 / CD107a Antibody (Internal) - Protocols

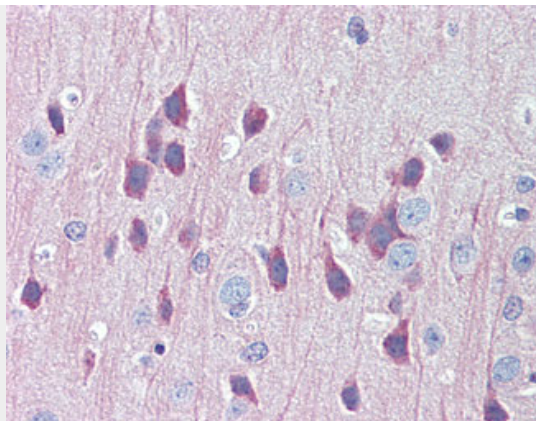
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

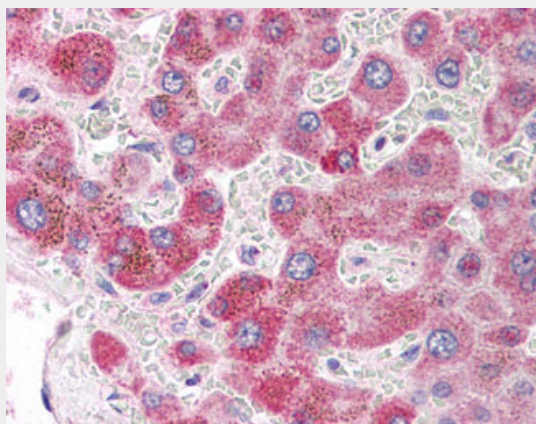
LAMP1 / CD107a Antibody (Internal) - Images



Immunofluorescence of LAMP-1 in Human Colon cells with LAMP-1 antibody at 20 ug/ml.



Anti-LAMP1 antibody IHC of mouse brain.



Anti-LAMP1 antibody IHC of human liver.

LAMP1 / CD107a Antibody (Internal) - Background

Presents carbohydrate ligands to selectins. Also implicated in tumor cell metastasis.

LAMP1 / CD107a Antibody (Internal) - References

Fukuda M.,et al.J. Biol. Chem. 263:18920-18928(1988).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham A.,et al.Nature 428:522-528(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Mane S.M.,et al.Arch. Biochem. Biophys. 268:360-378(1989).