

CD107a Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51313

Product Information

Application	WB
Primary Accession	P11279
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44882

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	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD107a. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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}

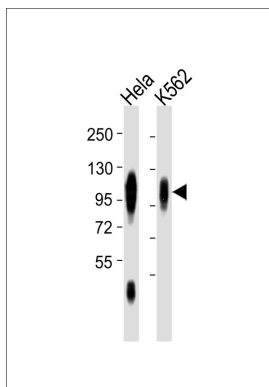
Background

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

References

Fukuda M.,et al.J. Biol. Chem. 263:18920-18928(1988).
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).
Viitala J.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:3743-3747(1988).

Images



All lanes : Anti-CD107a Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: K562 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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