

**LAMP1 / CD107a Antibody (clone 6E2)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS16109****Specification**

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**LAMP1 / CD107a Antibody (clone 6E2) - Product Information**

Application	WB, ICC, IHC
Primary Accession	<a href="#">P11279</a>
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Mouse
Clonality	Monoclonal
Calculated MW	45kDa KDa

**LAMP1 / CD107a Antibody (clone 6E2) - 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

**Reconstitution & Storage**

+4°C or -20°C, Avoid repeated freezing and thawing.

**Precautions**

LAMP1 / CD107a Antibody (clone 6E2) is for research use only and not for use in diagnostic or therapeutic procedures.

**LAMP1 / CD107a Antibody (clone 6E2) - 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:<a href="http://www.uniprot.org/citations/37390818" target="\_blank">37390818</a>). 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:<a href="http://www.uniprot.org/citations/37390818" target="\_blank">37390818</a>). Also plays an important role in NK-cells cytotoxicity (PubMed:<a href="http://www.uniprot.org/citations/2022921" target="\_blank">2022921</a>, PubMed:<a href="http://www.uniprot.org/citations/23632890" target="\_blank">23632890</a>). Mechanistically, participates in cytotoxic granule movement to the cell surface and perforin trafficking to the lytic granule (PubMed:<a href="http://www.uniprot.org/citations/23632890" target="\_blank">23632890</a>). In addition, protects NK-cells from degranulation-associated damage induced by their own cytotoxic granule content (PubMed:<a href="http://www.uniprot.org/citations/23847195" target="\_blank">23847195</a>). Presents carbohydrate ligands to selectins (PubMed:<a href="http://www.uniprot.org/citations/7685349" target="\_blank">7685349</a>).

target="\_blank">7685349</a>).

#### 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}

#### Volume

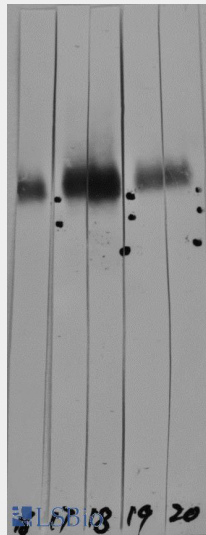
50 µl

#### LAMP1 / CD107a Antibody (clone 6E2) - Protocols

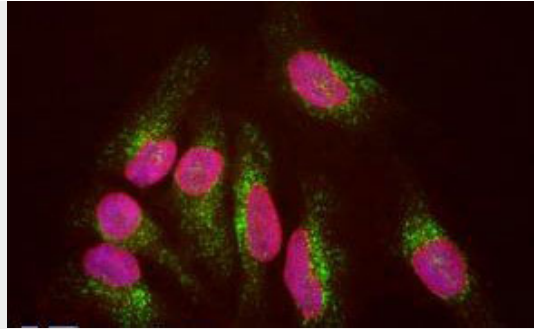
Provided below are standard protocols that you may find useful for product applications.

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

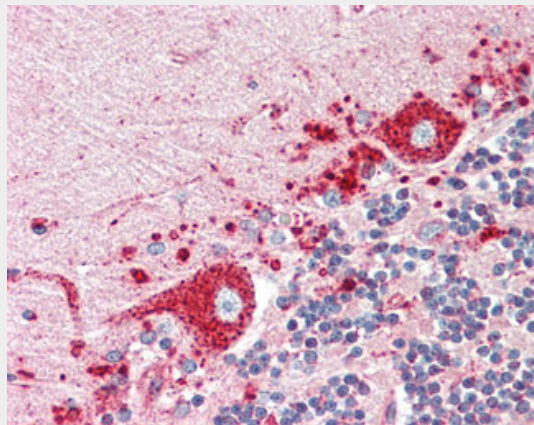
#### LAMP1 / CD107a Antibody (clone 6E2) - Images



Western strip blots of HeLa cell crude extracts with two different preparations of CD107a /...



HeLa cells staining with CD107a / LAMP1 antibody (green), and counterstained with chicken...



Anti-LAMP1 / CD107a antibody IHC staining of human brain, cerebellum.

#### **LAMP1 / CD107a Antibody (clone 6E2) - Background**

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

#### **LAMP1 / CD107a Antibody (clone 6E2) - 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).