

Mouse LAMP1 / CD107a Monoclonal Antibody | anti-LAMP1 antibody

Mouse Monoclonal [clone 6E2] (IgG1) to Human LAMP1 / CD107a

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52553	Mouse	Bovine, Human, Mouse, Pig, Rat	Western Blot, Immunofluorescence, Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

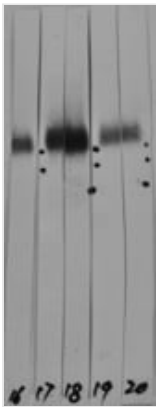
LAMP1 / CD107a; Monoclonal Antibody; Mouse Monoclonal [clone 6E2] (IgG1) to Human LAMP1 / CD107a; Anti-LAMP1 / CD107a Antibody (clone 6E2) IHC-plus; LAMP1; CD107a; CD107a antigen; LAMP-1; LGP120; LAMPA; Human LAMP1; anti-LAMP1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Bovine, Human, Mouse, Pig, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	6E2
Purity/Purification	Affinity Purified
Form/Format	PBS, 10 mM sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	417
Applicable Applications for anti-LAMP1 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen Species	Human
Target	LAMP1 / CD107a
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

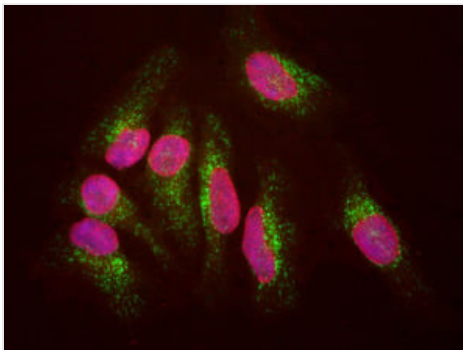
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	+4 degree C or -20 degree C, Avoid repeated freezing and thawing.

IMAGES



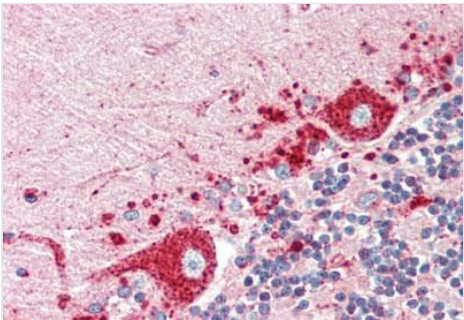
WB (Western Blot)

Western strip blots of HeLa cell crude extracts with two different preparations of CD107a / LAMP1 antibody in strips 17 and 18. Both preparations bind to a diffuse band running at between ~90kDa and ~120kDa as expected, and show no appreciably cross reactivity with any other protein.



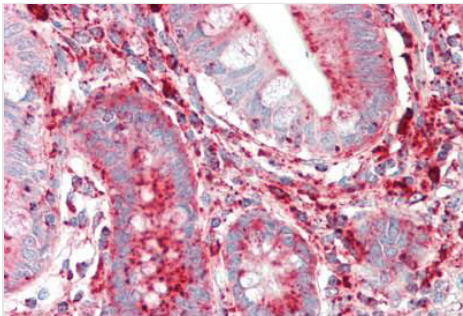
ICC (Immunocytochemistry)

HeLa cells staining with CD107a / LAMP1 antibody (green), and counterstained with chicken polyclonal antibody to Lamin A/C (red) and DNA (blue). The CD107a / 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.



IHC (Immunohistochemistry)

Anti-LAMP1 / CD107a antibody IHC staining of human brain, cerebellum. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 1:50.



IHC (Immunohistochemistry)

Anti-LAMP1 / CD107a antibody IHC staining of human small intestine. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-LAMP1 antibody	LAMP1, also known as CD107a, is a member of a family of membrane glycoproteins. This glycoprotein provides selectins with carbohydrate ligands. LAMP1 may also play a role in tumor cell metastasis. It has also been shown to be a marker of degranulation on lymphocytes such as CD8+ and NK cells.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	112380628
NCBI GeneID	3916
NCBI Accession #	NP_005552.3
NCBI GenBank Nucleotide #	NM_005561.3
UniProt Accession #	P11279; Q8WU33; Q96I40; Q9BRD2; Q9NP13; B4DWL3
NCBI Official Full Name	lysosome-associated membrane glycoprotein 1
NCBI Official Synonym Full Names	lysosomal-associated membrane protein 1
NCBI Official Symbol	LAMP1
NCBI Official Synonym Symbols	LAMPA; CD107a; LGP120
NCBI Protein Information	lysosome-associated membrane glycoprotein 1; LAMP-1; CD107 antigen-like family member A; lysosome-associated membrane protein 1

UniProt Protein Name	Lysosome-associated membrane glycoprotein 1
UniProt Gene Name	LAMP1
UniProt Synonym Gene Names	LAMP-1; Lysosome-associated membrane protein 1
UniProt Entry Name	LAMP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/lamp1-cd107a-antibody-clone-6e2-western-blot-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/52553>