

Mouse anti-Human CD63 Monoclonal Antibody | anti-CD63 antibody

CD63 (Late Endosomes Marker)

CATALOG # AAA215384	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

CD63; Monoclonal Antibody; CD63 (Late Endosomes Marker); gp55; granulophysin; Lysosomal-associated membrane protein 3; Mast cell antigen AD1Melanoma-associated antigen MLA1; Melanoma-associated antigen ME491; NGA; Ocular melanoma-associated antigen; Tetraspanin-30; TSPAN30; anti-CD63 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	LAMP3/3315
Specificity	This MAb recognizes protein of 26kDa-60kDa, which is identified as CD63. The tetraspanins are integral membrane proteins expressed on cell surface and granular membranes of hematopoietic cells and are components of multi-molecular complexes with specific integrins. The tetraspanin CD63 is a lysosomal membrane glycoprotein that translocates to the plasma membrane after platelet activation. CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T cell and B cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes. CD63 is a member of the TM4 superfamily of leukocyte glycoproteins that includes CD9, CD37 and CD53, which contain four transmembrane regions. CD63 may play a role in phagocytic and intracellular lysosome-phagosome fusion events. CD63 deficiency is associated with Hermansky-Pudlak syndrome and is strongly expressed during the early stages of melanoma progression.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	238
Applicable Applications for anti-CD63 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment (around aa 100-197) of Human CD63 protein (exact sequence is proprietary)
Cellular Localization	Cell Surfaceand Cytoplasmic
Hu-chromosome Location	12q13.2
Positive Control	HL60, THP-1 or NIH/3T3 cells. Human spleen, Melanoma or Lymphoma.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing >19,000 full-length human proteins using CD63 Mouse Monoclonal Antibody (LAMP3/3315). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS_PAGE

SDS-PAGE Analysis Purified CD63 Mouse Monoclonal Antibody (LAMP3/3315). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemisry)

Formalin-fixed, paraffin-embedded human tonsil stained with CD63 Mouse Monoclonal Antibody (LAMP3/3315).



IHC (Immunohiostchemistry)

Formalin-fixed, paraffin-embedded human melanoma stained with CD63 Mouse Monoclonal Antibody (LAMP3/3315).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human melanoma stained with CD63 Mouse Monoclonal Antibody (LAMP3/3315).

ADDITIONAL INFORMATION

References	Duffield, A., et al. 2003. The tetraspanin CD63 enhances the internalization of the H/K-ATPase subunit. Proc. Natl. Acad. Sci. USA 100: 15560-15565.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	189384
NCBI GeneID	967
UniProt Accession #	P08962
Molecular Weight	26kDa (core protein); 30-60kDa (glycosylated)
NCBI Official Full Name	melanoma-associated antigen
NCBI Official Synonym Full Names	CD63 molecule
NCBI Official Symbol	CD63
NCBI Official Synonym Symbols	MLA1; ME491; LAMP-3; OMA81H; TSPAN30
NCBI Protein Information	CD63 antigen
UniProt Protein Name	CD63 antigen
UniProt Gene Name	CD63
UniProt Synonym Gene Names	MLA1; TSPAN30; LAMP-3; Tspan-30

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd63-antibody-clone-lamp3-3315-immunohistochemistry-elisa/215384>