

CD63 (Late Endosomes Marker) Antibody
Mouse Monoclonal Antibody [Clone NK1/C3]
Catalog # AH12777

Specification

CD63 (Late Endosomes Marker) Antibody - Product Information

Application	,3,4,
Primary Accession	P08962
Other Accession	967, 445570
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	26kDa (core protein); 30-60kDa (glycosylated) KDa

CD63 (Late Endosomes Marker) Antibody - Additional Information

Gene ID 967

Other Names

CD63 antigen, Granulophysin, Lysosomal-associated membrane protein 3, LAMP-3, Melanoma-associated antigen ME491, OMA81H, Ocular melanoma-associated antigen, Tetraspanin-30, Tspan-30, CD63, CD63, MLA1, TSPAN30

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD63 (Late Endosomes Marker) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CD63 (Late Endosomes Marker) Antibody - Protein Information

Name CD63

Synonyms MLA1, TSPAN30

Function

Functions as a cell surface receptor for TIMP1 and plays a role in the activation of cellular signaling cascades. Plays a role in the activation of ITGB1 and integrin signaling, leading to the activation of AKT, FAK/PTK2 and MAP kinases. Promotes cell survival, reorganization of the actin cytoskeleton, cell adhesion, spreading and migration, via its role in the activation of AKT and FAK/PTK2. Plays a role in VEGFA signaling via its role in regulating the internalization of KDR/VEGFR2. Plays a role in intracellular vesicular transport processes, and is required for normal trafficking of the PMEL luminal domain that is essential for the development and maturation of melanocytes. Plays a role in the adhesion of leukocytes onto endothelial cells via its role in the regulation of SELP trafficking. May play a role in mast cell degranulation in response to Ms4a2/FcεRI stimulation, but not in mast

cell degranulation in response to other stimuli.

Cellular Location

Cell membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Endosome, multivesicular body. Melanosome. Secreted, extracellular exosome. Cell surface. Note=Also found in Weibel-Palade bodies of endothelial cells (PubMed:10793155). Located in platelet dense granules (PubMed:7682577). Detected in a subset of pre-melanosomes Detected on intraluminal vesicles (ILVs) within multivesicular bodies (PubMed:21962903).

Tissue Location

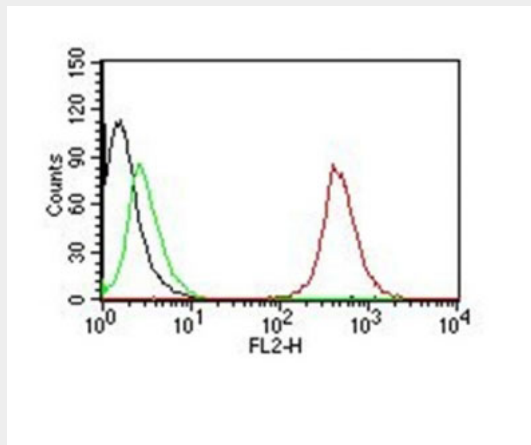
Detected in platelets (at protein level). Dysplastic nevi, radial growth phase primary melanomas, hematopoietic cells, tissue macrophages.

CD63 (Late Endosomes Marker) Antibody - 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](#)

CD63 (Late Endosomes Marker) Antibody - Images



Flow Cytometry of human CD63 on MCF-7 Cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled CD63 Monoclonal Antibody (NK1/C3).

CD63 (Late Endosomes Marker) Antibody - Background

This MAb recognizes protein of 26kDa-60kDa, which is identified as CD63. Its epitope is different from that of MAb LAMP3/529. 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.

CD63 (Late Endosomes Marker) Antibody - References

C. Vennegoor et al., *Int. J. Cancer* 35: 287-295, 1985. | AA Palmer et al., *Pathology* 17: 335-339, 1985. | EC Hagen et al., *Histopathology* 10: 689-700, 1986