10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD63 Antibody (clone AHN16.1/46-4-5)

Mouse Monoclonal Antibody
Catalog # ALS17134

Specification

CD63 Antibody (clone AHN16.1/46-4-5) - Product Information

Application	**IHC-P, ICC, FC**
Primary Accession	P08962
Other Accession	967
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**25637**
Dilution	**IHC-P~~N/A** **ICC~~N/A** **FC~~1:10~50**

CD63 Antibody (clone AHN16.1/46-4-5) - Additional Information

Gene ID 967

Other Names
CD63, CD63 molecule, LAMP-3, ME491, Granulophysin, MLA1, Tetraspanin-30, Tspan-30, CD63 antigen, OMA81H, TSPAN30

Target/Specificity
CD63 molecule of about 50 kd.

Reconstitution & Storage
50 mM sodium phosphate, pH 7.5, 100 mM potassium chloride, 150 mM sodium chloride, 0.5 mg/ml Gentamicin sulfate. Store at +4°C. DO NOT FREEZE.

Precautions
CD63 Antibody (clone AHN16.1/46-4-5) is for research use only and not for use in diagnostic or therapeutic procedures.

CD63 Antibody (clone AHN16.1/46-4-5) - 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/FceRI 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 intralumenal 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.

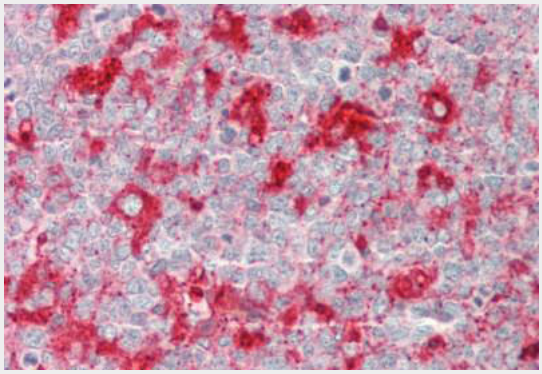
Volume
50 µl

CD63 Antibody (clone AHN16.1/46-4-5) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD63 Antibody (clone AHN16.1/46-4-5) - Images



Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)

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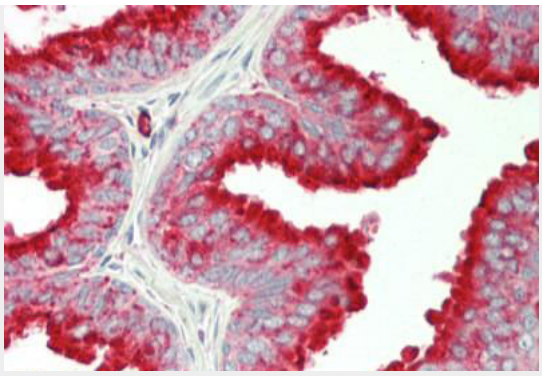
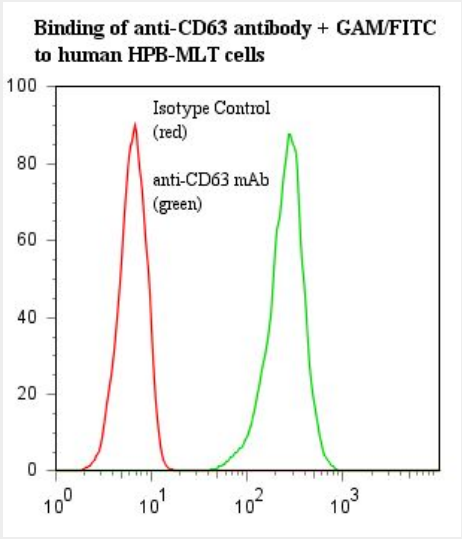


Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)



Flow cytometry of CD63 antibody

CD63 Antibody (clone AHN16.1/46-4-5) - Background

Functions as 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/FceRI stimulation, but not in mast cell degranulation in response to other stimuli.

CD63 Antibody (clone AHN16.1/46-4-5) - References

Hotta H.,et al.Cancer Res. 48:2955-2962(1988).
Rapp G.,et al.DNA Cell Biol. 9:479-485(1990).
Metzelaar M.J.,et al.J. Biol. Chem. 266:3239-3245(1991).
Wang M.X.,et al.Arch. Ophthalmol. 110:399-404(1992).
Hotta H.,et al.Biochem. Biophys. Res. Commun. 185:436-442(1992).