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

CD63 (Late Endosomes Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62526	**Mouse**	**Human, Mouse**	**Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

CD63; Monoclonal Antibody; CD63 (Late Endosomes Marker) Mouse Monoclonal Antibody; gp55; granulophysin; Lysosomal-associated membrane protein 3 (LAMP-3); Mast cell antigen AD1; melanoma 1 antigen; Melanoma-associated antigen MLA1; Melanoma-associated antigen ME491; MLA1; NGA; Ocular melanoma-associated antigen; OMA81H; PTLGP40; Tetraspanin-30; TSPAN30; anti-CD63 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SPM524
Specificity	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.
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), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cell Surface & Cytoplasmic
Immunogen	Smooth plasma membrane fraction of MeWo cells
Hu-Chromosome Location	12q13.2
Positive Control	SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.
Preparation and Storage	Antibody with azide store at 2-8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

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

IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded Mouse Spleen stained with CD63 Monoclonal Antibody (SPM524) (DAB Chromogen

IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human Melanoma stained with CD63 Monoclonal Antibody (SPM524) (AEC Chromogen

WB (Western Blot)
Western Blot of human Spleen Lysate with CD63 Monoclonal Antibody (SPM524

ADDITIONAL INFORMATION

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	383872447
NCBI GeneID	967
NCBI Accession #	NP_001244318.1
NCBI GenBank Nucleotide #	NM_001257389.1
UniProt Accession #	P08962; Q5TZP3; Q8N6Z9; Q9UCG6; F8VZE2
Molecular Weight	26kDa (core protein); 30-60kDa (glycosylated)
NCBI Official Full Name	CD63 antigen isoform A
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
UniProt Entry Name	CD63_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.

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