

Product Datasheet

CD63 Antibody / LAMP-3 (orb2637613)

Description	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.
Species/Host	Mouse
Reactivity	Human, Mouse
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	Full length human CD63 was used as the immunogen for this antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only

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Application notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titrated up or down for optimal performance.1. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Formula

0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide

Isotype

Mouse IgG1, kappa

Clonality

Monoclonal

Clone Number

MX-49.129.5

Antibody Type

Primary Antibody

Purity

Protein G affinity chromatography

Hazard Information

This CD63 antibody is available for research use only.

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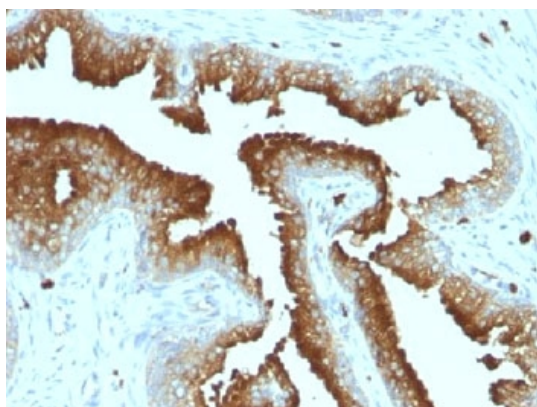
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Dilution Range

Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT

Expiration Date

12 months from date of receipt.



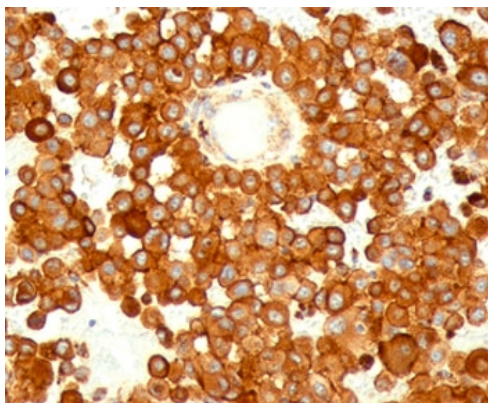
IHC testing of FFPE prostate carcinoma with CD63 antibody (clone MX-49.129.5).

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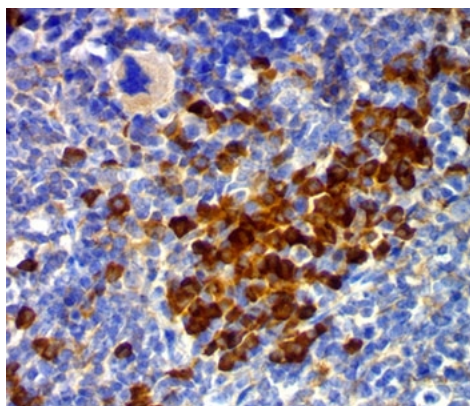
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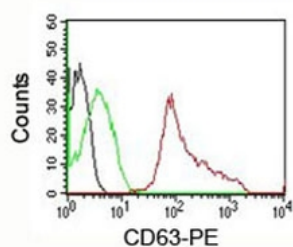
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IHC testing of FFPE human melanoma stained with CD63 antibody (clone MX49.129.5).



IHC testing of FFPE mouse spleen stained with CD63 antibody (clone MX49.129.5).



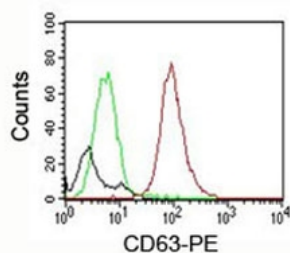
FACS testing of human PBMC: Black = cells alone; Green = isotype control; Red = CD63 antibody PE conjugate

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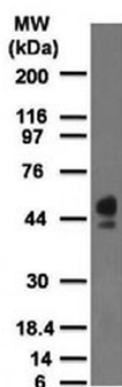
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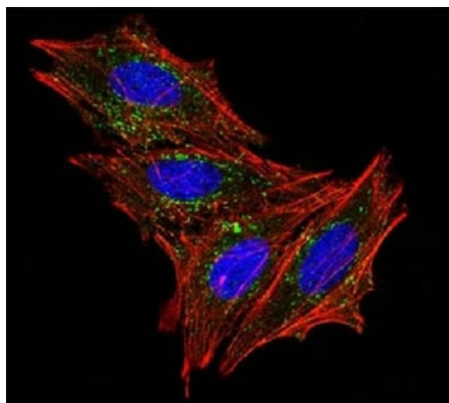
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FACS testing of mouse NIH3T3: Black = cells alone; Green = isotype control; Red = CD63 antibody PE conjugate



Western blot testing of human spleen lysate with CD63 antibody at 2 ug/ml (clone MX-49.129.5).



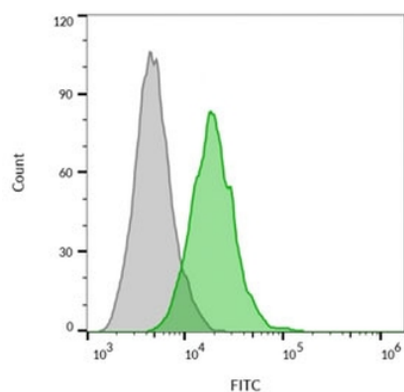
Immunofluorescence testing of HeLa cells with Alexa Fluor 488 conjugated CD63 antibody (green). F-actin filaments are labeled with Dylight 554 phalloidin (red); nuclei stained with DAPI (blue).

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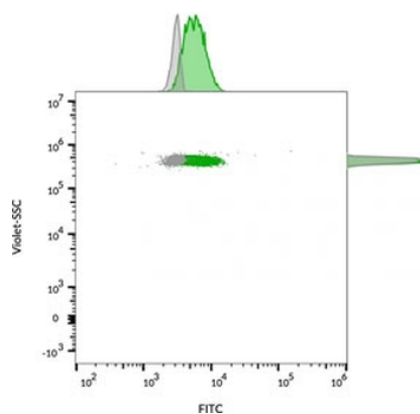
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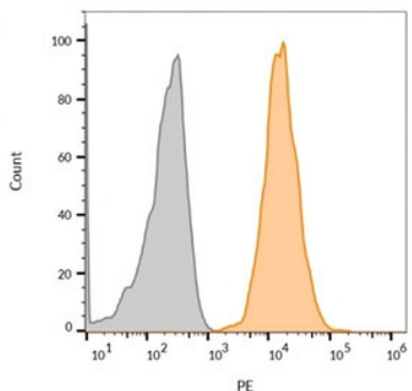
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FACS staining of human MCF7 cells: Gray = unstained, Green = CF488 labeled CD63 antibody.



FACS staining of bead-bound exosomes derived from human MCF7 cells: Gray = unstained, Green = CF488 labeled CD63 antibody.



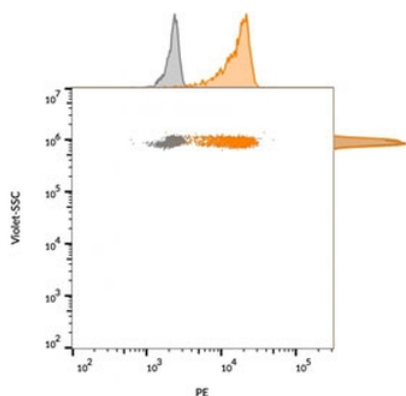
FACS staining of human MCF7 cells: Gray = unstained, Orange = CF568 labeled CD63 antibody.

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FACS staining of bead-bound exosomes derived from human MCF7 cells: Gray = unstained, Orange = CF568 labeled CD63 antibody.

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