

Product Datasheet

CD63 Antibody / LAMP-3 (orb749335)

Catalog Number	orb749335
Category	Antibodies
Description	<p>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. It 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. Deficiency is associated with Hermansky-Pudlak syndrome and is strongly expressed during the early stages of melanoma progression.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human, Mouse
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G purified antibody
Immunogen	The smooth plasma membrane fraction of MeWo cells was used as the immunogen for this CD63 antibody.

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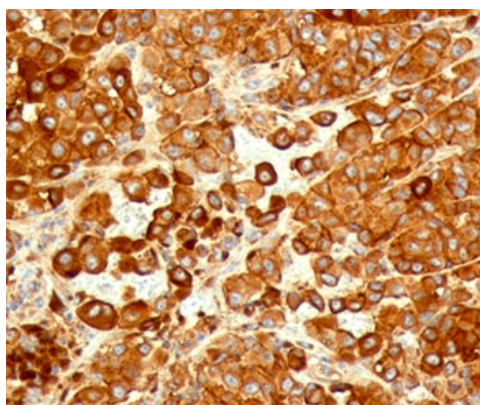
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Tested applications	FACS, IF, IHC-P
Dilution range	Flow cytometry: 1-2ug/10 ⁶ cells, Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Application notes	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titered up or down for optimal performance.1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, 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.
Antibody Type	Primary Antibody
Clone Number	NKI/C3
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
Expiration Date	12 months from date of receipt.



IHC testing of human melanoma stained with CD63 antibody (NKI/C3).

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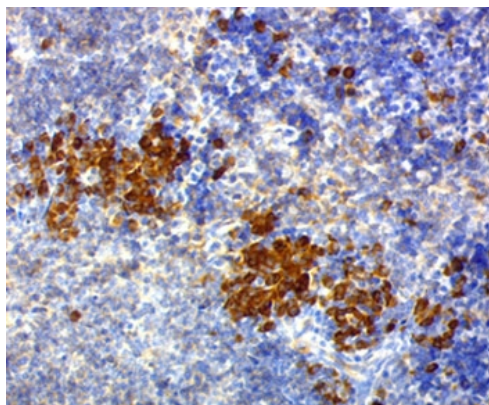
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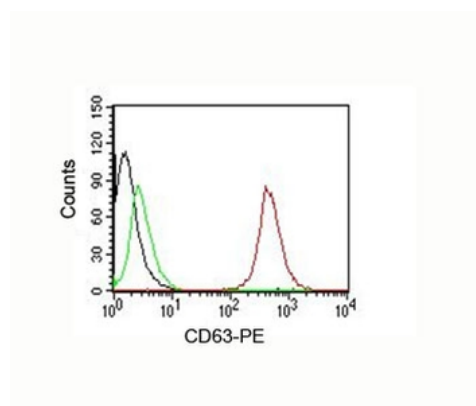
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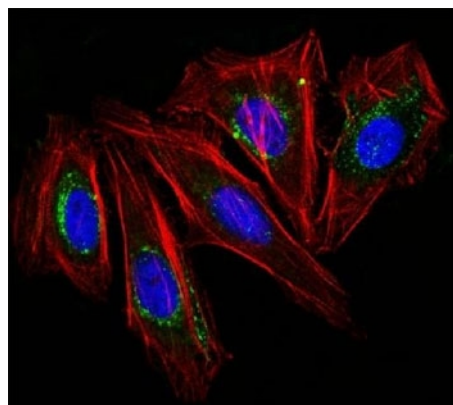
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IHC testing of mouse spleen stained with CD63 antibody (NK1/C3).



FACS testing of MCF-7 cells: Black = cells alone; Green = isotype control; Red = CD63 antibody PE conjugate



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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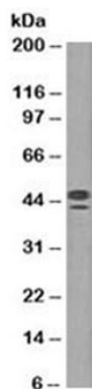
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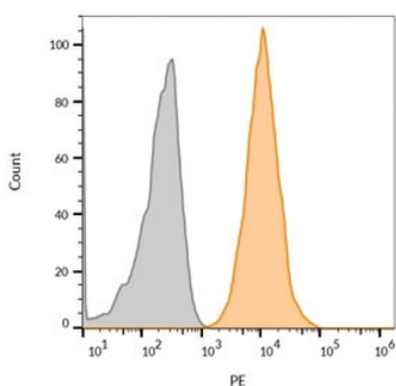
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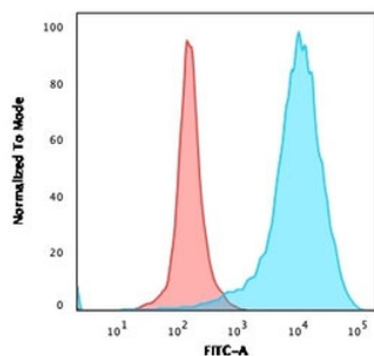
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Western blot testing of human spleen lysate with CD63 antibody (clone NK1/C3).



Flow cytometry staining of live human MCF7 cells with biotin labeled CD63 antibody (clone NK1/C3) and streptavidin-CF568 (orange). Gray histogram represents unstained cells.



Flow cytometry staining of PFA-fixed human U-87 MG cells with CD63 antibody (clone NK1/C3); Red = isotype control, Blue = CD63 antibody.

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