

## Product Datasheet

### CD63 Antibody / LAMP-3 (orb2637612)

<b>Catalog Number</b>	orb2637612
<b>Category</b>	Antibodies
<b>Description</b>	<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>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Mouse
<b>Buffer/Preservatives</b>	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
<b>Purification</b>	Protein G purified antibody
<b>Immunogen</b>	The smooth plasma membrane fraction of MeWo cells was used as the immunogen for this CD63 antibody.

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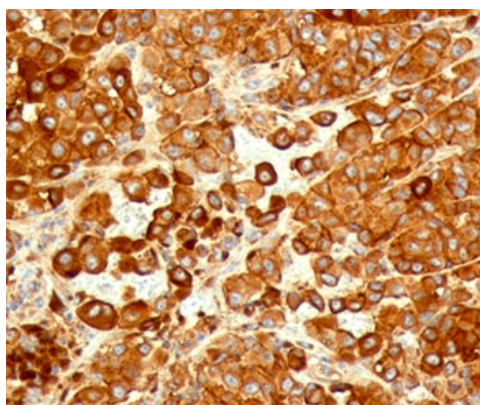
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<b>Tested applications</b>	FACS, IF, IHC-P
<b>Dilution range</b>	Flow cytometry: 1-2ug/10 <sup>6</sup> cells, Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Application notes</b>	The concentration stated for 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.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	NKI/C3
<b>Storage</b>	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.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



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

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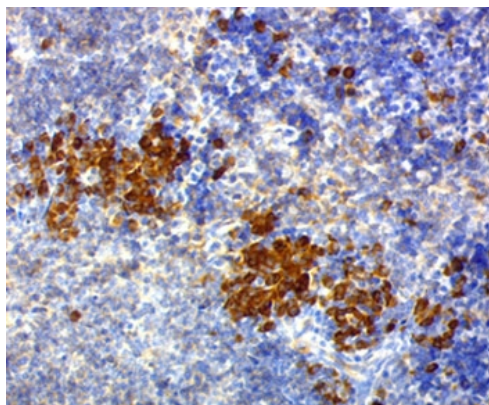
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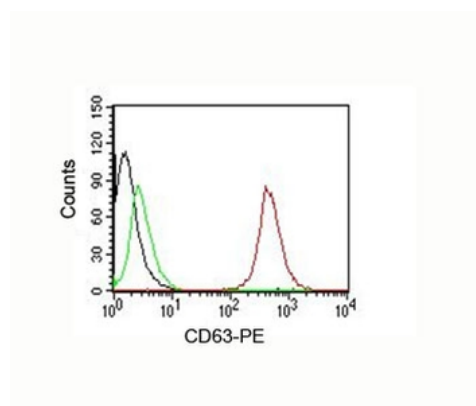
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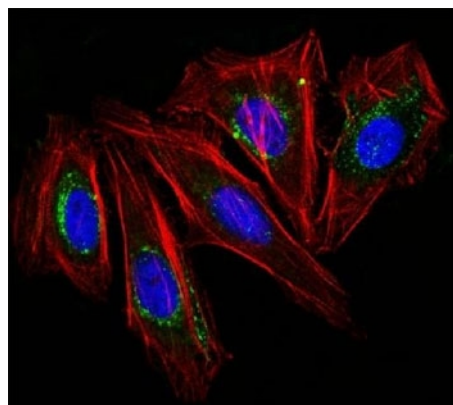
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IHC testing of mouse spleen stained with CD63 antibody (NK1/C3).



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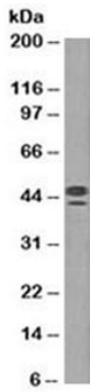
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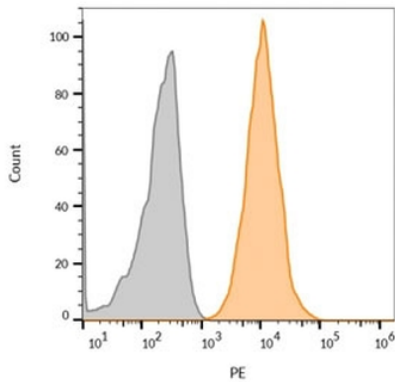
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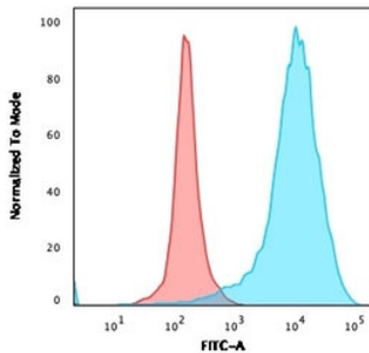
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Western blot testing of human spleen lysate with CD63 antibody (clone NK1/C3).



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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