

## Recombinant CD63 (Late Endosomes Marker) Antibody

Mouse Monoclonal Antibody [Clone rMX-49.129.5]

Catalog No	Format	Size
967-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
967-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
967-MSM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

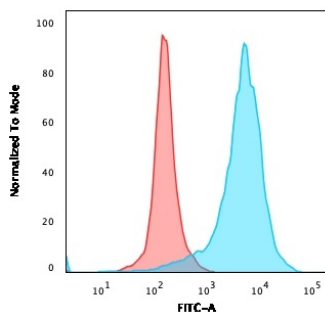
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

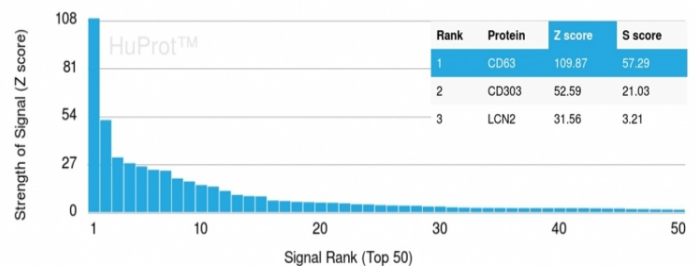
<b>Clone</b>	rMX-49.129.5
<b>Gene Name</b>	CD63
<b>Immunogen</b>	Smooth plasma membrane fraction of MeWo cells
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	26kDa (core protein); 30-60kDa (glycosylated)
<b>Cellular Localization</b>	Cell membrane, Cell surface, Endosome, Extracellular exosome, Late endosome membrane, Lysosome membrane, Melanosome, Multivesicular body, Secreted
<b>Species Reactivity</b>	Human, Mouse
<b>Positive Control</b>	HL60, SK-MEL-28, THP-1 or NIH/3T3 cells. Melanoma or lymphoma., U87MG

\*Optimal dilution for a specific application should be determined.

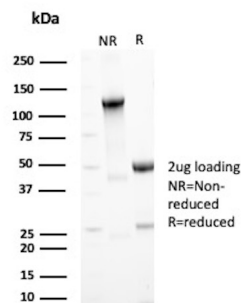
### Product Images for Recombinant CD63 (Late Endosomes Marker) Antibody



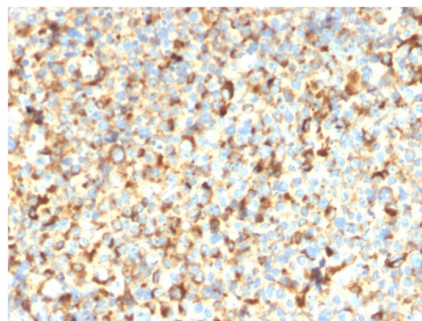
Flow Cytometric Analysis of PFA-fixed U87MG cells. CD63-Monospecific Mouse Recombinant Monoclonal Antibody (rMX-49.129.5) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using CD63-Monospecific Mouse Recombinant Monoclonal Antibody (rMX-49.129.5) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD?s) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD?s) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified CD63 antigen Recombinant Mouse Monoclonal Antibody (rMX-49.129.5). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Melanoma stained with CD63-Monospecific Recombinant Mouse Monoclonal Antibody (rMX-49.129.5)

### Specificity & Comments

This MAbs recognizes protein of 26kDa-60kDa, which is identified as CD63. Its epitope is different from that of MAbs LAMP3/529. 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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

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.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Immunology