CD63 (Late Endosomes Marker) Antibody

Mouse Monoclonal Antibody [Clone NKI/C3]

Catalog No	Format	Size
967-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug
967-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
967-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug

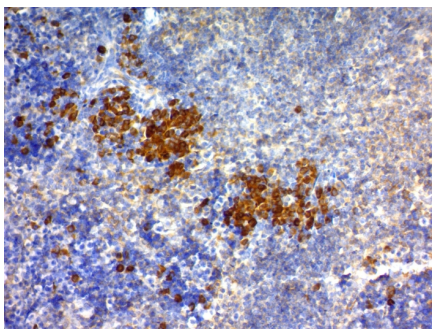
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

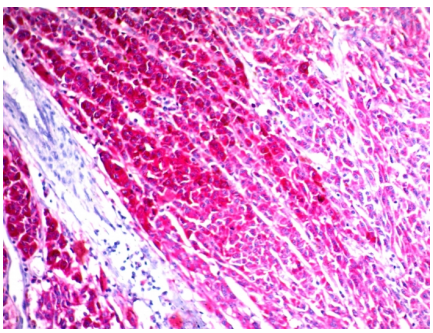
Clone	NKI/C3
Gene Name	CD63
Immunogen	Smooth plasma membrane fraction of MeWo cells
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	26kDa (core protein); 30-60kDa (glycosylated)
Cellular Localization	Cell membrane, Cell surface, Cytoplasm, Endosome, Extracellular exosome, Late endosome membrane, Lysosome membrane, Melanosome, Multivesicular body, Secreted
Species Reactivity	Human, Mouse
Positive Control	SK-MEL-28, UM87MG or MCF-7 cells. Human melanoma or spleen. Lung.

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

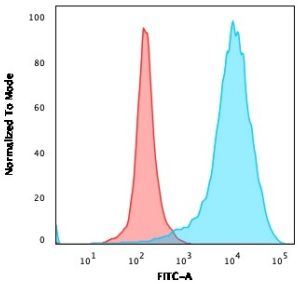
Product Images for CD63 (Late Endosomes Marker) Antibody



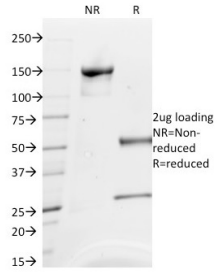
Formalin-fixed, paraffin-embedded mouse spleen stained with CD63 Mouse Monoclonal Antibody (NKI/C3) (DAB Chromogen)



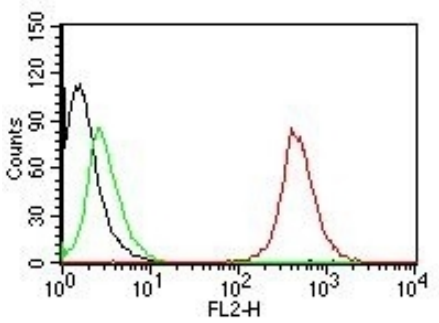
Formalin-fixed, paraffin-embedded human melanoma stained with CD63 Mouse Monoclonal Antibody (NKI/C3) (AEC Chromogen)



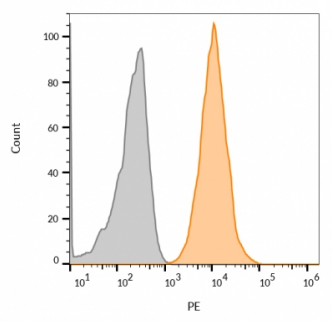
Flow Cytometric Analysis of PFA-fixed U87MG cells. CD63 Mouse Monoclonal Antibody (NKI/C3) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



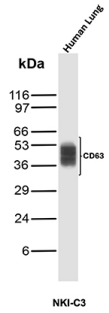
SDS-PAGE Analysis Purified CD63 Mouse Monoclonal Antibody (NKI/C3). Confirmation of Purity and Integrity of Antibody.



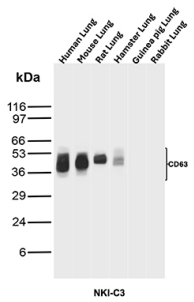
Flow cytometric analysis of human CD63 on MCF-7 cells. Black: cells alone; Green: isotype control; Red: PE-labeled CD63 Mouse Monoclonal Antibody (NKI/C3).



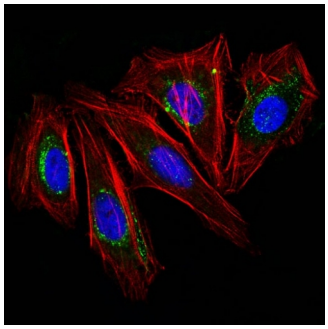
Flow cytometry analysis of live MCF-7 cells. Unstained (gray) or stained with biotin-labeled CD63 monoclonal antibody (NKI-C3) followed by streptavidin-CF568 (orange).



Western Blot Analysis of human lung tissue lysate using CD63 Mouse Monoclonal Antibody (NKI-C3)



Western Blot Analysis of lung tissue lysates of different species using CD63 Mouse Monoclonal Antibody (NKI-C3)



Immunofluorescent Analysis of HeLa cells using CF488-labeled CD63 Mouse Monoclonal Antibody (NKI/C3). F-actin filaments are labeled with Dylight 554 phalloidin (red). DAPI was used to stain the cell nucleus (blue).

Specificity & Comments

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

Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system. 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

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.