

Product Datasheet

CD63 Antibody (MX-49.129.5) - Azide and BSA Free NBP2-34689-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP2-34689-0.1mg

CD63 Antibody (MX-49.129.5) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MX-49.129.5
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-32830). Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
Host	Mouse
Gene ID	967
Gene Symbol	CD63
Species	Human, Mouse
Marker	Late Endosomes Marker
Specificity/Sensitivity	This monoclonal antibody recognizes protein of 26kDa-60kDa, which is identified as CD63. Its epitope is different from that of monoclonal antibody 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.
Immunogen	Full length CD63 of human origin (Uniprot: P08962)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 1:10-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5-1ug/ml, Immunohistochemistry-Paraffin 0.5-1ug/ml, CyTOF-ready

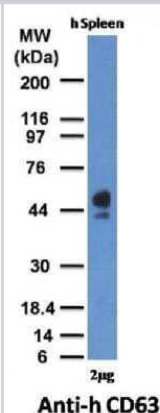


Application Notes

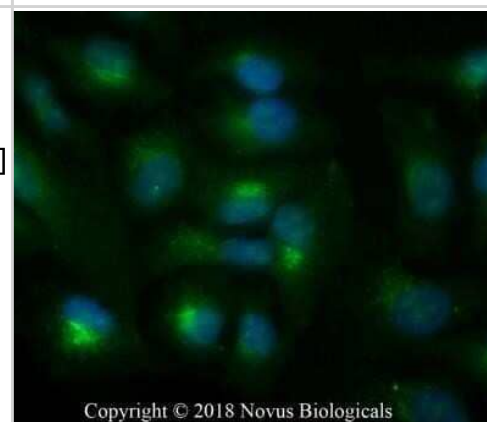
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

Images

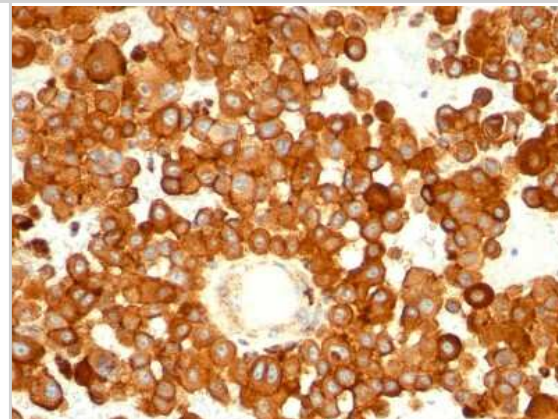
Western Blot: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Western blot of human spleen Lysate with CD63 Monoclonal Antibody (IMX-49.129.5)



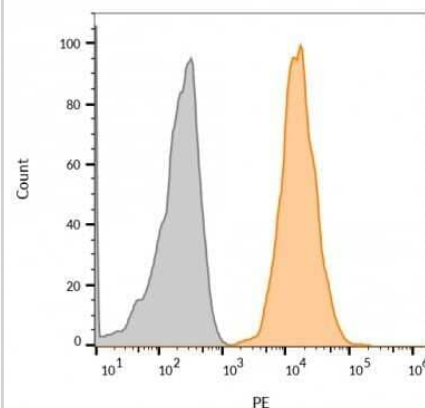
Immunocytochemistry/Immunofluorescence: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-CD63 (MX-49.129.5) conjugated to Alexa Fluor 488 [NBP2-34689AF488] at 20ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the Alexa Fluor 488 version of this antibody.



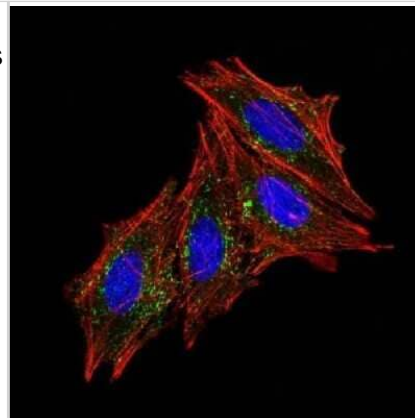
Immunohistochemistry-Paraffin: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Formalin-paraffin human melanoma stained with CD63 MAb (MX-49.129.5)



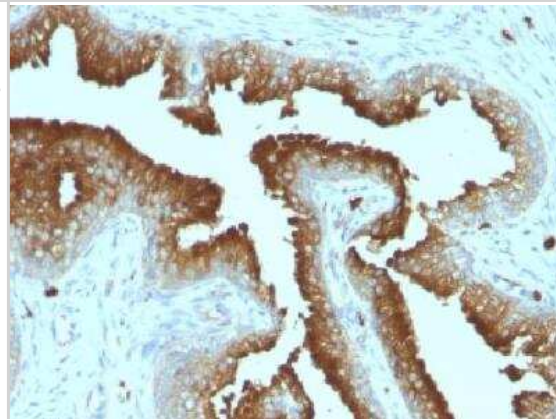
Flow Cytometry: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Flow cytometry of MCF-7 cells unstained (gray) or stained with CF568-labeled CD63 monoclonal antibody (MX-49.129.5) (orange).



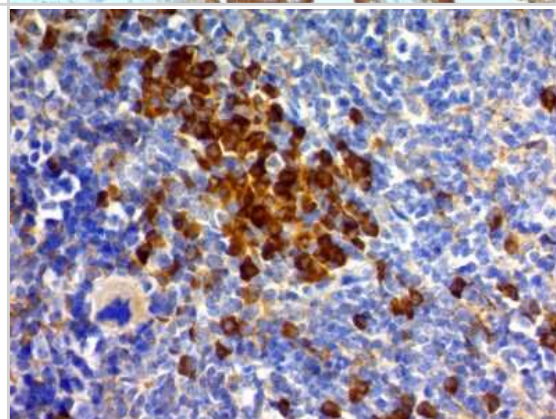
Immunocytochemistry/Immunofluorescence: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - IF staining of HeLa cells using AF488 labeled CD63 Monoclonal Antibody (MX-49.129.5) (green). F-actin filaments are labeled with dylight 554 phalloidin (red) Nuclei stained with DAPI (blue).



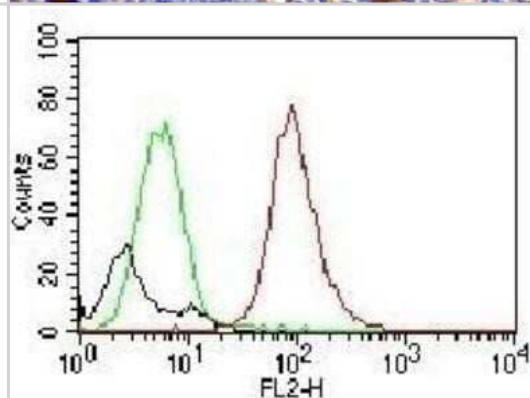
Immunohistochemistry-Paraffin: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Formalin-fixed, paraffin-embedded human prostate carcinoma stained with CD63 Monoclonal Antibody (MX-49.129.5)



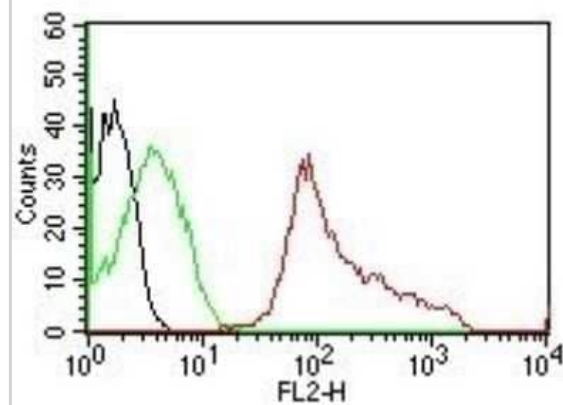
Immunohistochemistry-Paraffin: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Formalin-paraffin mouse spleen stained with CD63 MAb (MX-49.129.5)



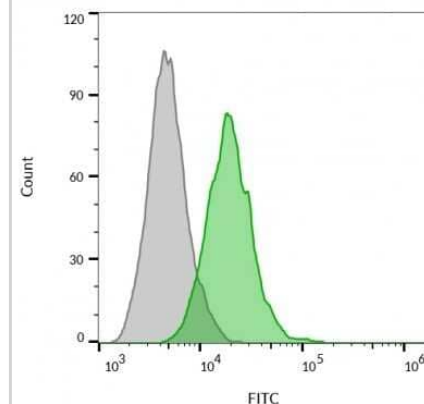
Flow Cytometry: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Flow Cytometry of NIH/3T3 Cells. Black: Cells alone; Green: Isotype Control; Red; PE-labeled CD63 Monoclonal Antibody (MX-49.129.5)



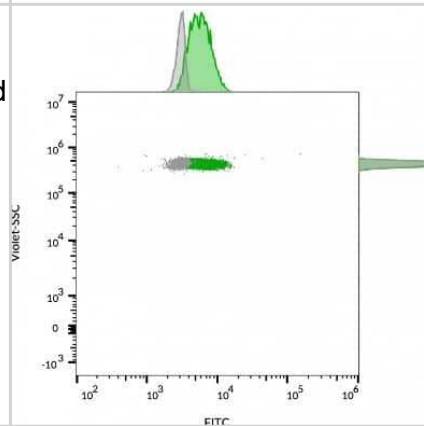
Flow Cytometry: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Flow Cytometric staining of CD63 on human PBMC cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled CD63 Monoclonal Antibody (MX-49.129.5).



Flow Cytometry: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Flow cytometry of MCF-7 cells unstained (gray) or stained with CF488A-labeled CD63 monoclonal antibody (MX-49.129.5) (green).



Flow Cytometry: CD63 Antibody (MX-49.129.5) - Azide and BSA Free [NBP2-34689] - Flow cytometry of bead-bound exosomes derived from MCF-7 cells. Unstained exosomes (gray) or stained with CF488A-labeled CD63 monoclonal antibody (MX-49.129.5) (green)





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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00000967-G01-2ug	Recombinant Human CD63 Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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