BOSTER
antibody and ELISA experts

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Anti-CD63 (Late Endosomes Marker) Monoclonal Antibody

Catalog Number: M01080

About CD63

This monoclonal antibody 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.

Overview

Product Name	Anti-CD63 (Late Endosomes Marker) Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CD63 (Late Endosomes Marker) Monoclonal Antibody (Catalog # M01080). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Mouse.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: MX-49.129.5
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	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.
Host	Mouse
Uniprot ID	P08962

Technical Details

Immunogen	Full length CD63 of human origin
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa

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Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	Flow Cytometry (0.5-1ug/million cells) Immunofluorescence (0.5-1ug/ml) Western Blot (0.5-1ug/ml) 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 95 &degC followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.

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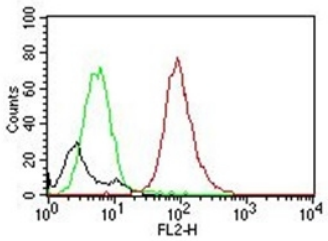
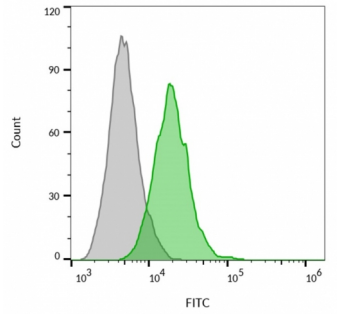
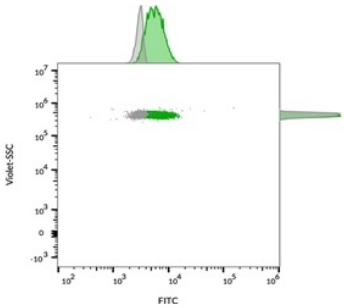
Anti-CD63 (Late Endosomes Marker) Monoclonal Antibody (M01080) Images



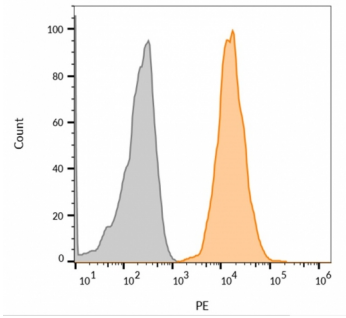
Flow cytometric analysis of NIH/3T3 cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5).



Flow cytometric analysis of MCF-7 cells. Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5) followed by goat anti-mouse IgG-CF488 (green); unstained cells (gray)



Flow cytometric analysis of bead-bound exosomes derived from MCF-7 cells. Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5) followed by goat anti-mouse IgG-CF488 (green); unstained exosomes (gray).



Flow cytometric analysis of MCF-7 cells. Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5) followed by goat anti-mouse IgG-CF568 (orange); unstained cells (gray).

Flow cytometric analysis of bead-bound exosomes derived from MCF-7 cells. Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5) followed by goat anti-mouse IgG-CF568 (orange); unstained exosomes (gray).

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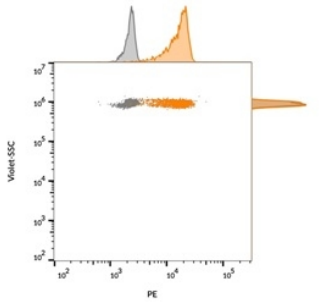
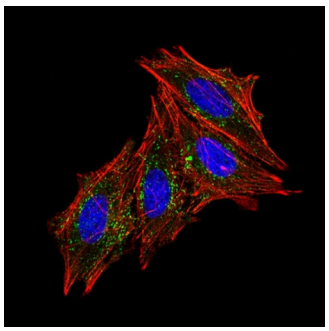
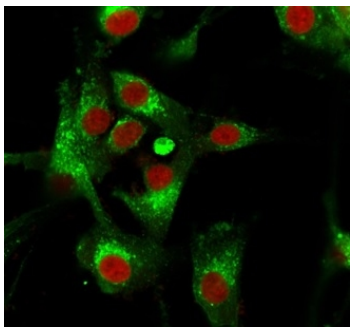
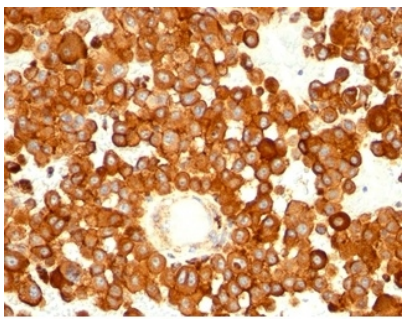




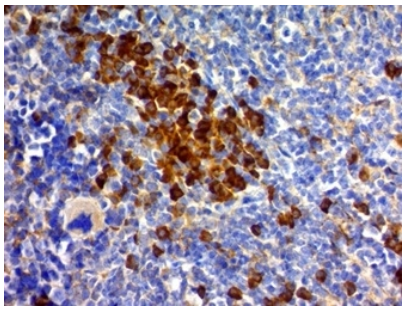
Immunofluorescence analysis of HeLa cells stained using CF ®488-labeled-CD63 Monoclonal Antibody (MX-49.129.5) (green). F-actin filaments labeled with phalloidin (red), nuclei stained with DAPI (blue).



Immunofluorescence analysis of PFA-fixed U87MG cells stained using CD63 Mouse Monoclonal Antibody (MX-49.129.5) followed by goat anti-mouse IgG-CF488 (green). CF640R phalloidin (red).



Formalin-fixed, paraffin-embedded human melanoma stained with Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5).



Formalin-fixed, paraffin-embedded mouse spleen stained with Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5).

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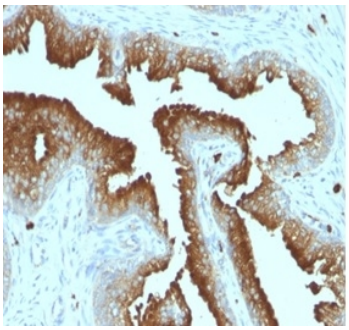
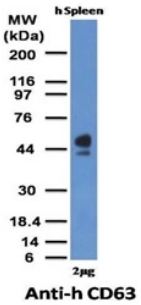


Formalin-fixed, paraffin-embedded human prostate carcinoma stained with Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5).



Western blot analysis of human spleen tissue lysate using Anti-CD63 Mouse Monoclonal Antibody (MX-49.129.5).

1 Publications Citing This Product

1. PubMed ID: 22728711, Du Hy, Dong Lh, Zhao Bj, Fu J, Wang Qq, Chen F, Ou L, Li N, Sun X, Tang Zm, Song Hf. Acta Pharmacol Sin. 2012 Aug;33(8):1047-54. Doi: 10.1038/Aps.2012.54. Epub 2012 Jun 25. Immunostimulatory And Anti-Neoplasm Effects Of A Novel Palindrome Cpg Olig...

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Anti-CD63 (Late Endosomes Marker) Monoclonal Antibody

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