

Product Datasheet

CD63 Antibody (NK1/C3)

NBP2-32829-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-32829-0.1mg

CD63 Antibody (NKI/C3)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	NKI/C3
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

Product Description	
Description	<p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34694)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.</p>
Host	Mouse
Gene ID	967
Gene Symbol	CD63
Species	Human, Mouse
Marker	Late Endosomes Marker
Specificity/Sensitivity	<p>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.</p>
Immunogen	Smooth plasma membrane fraction of MeWo cells

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml

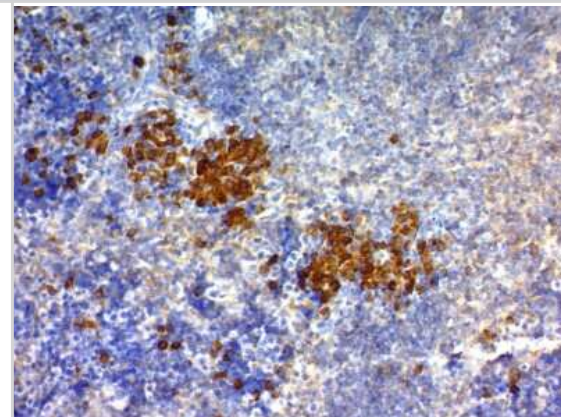


Application Notes

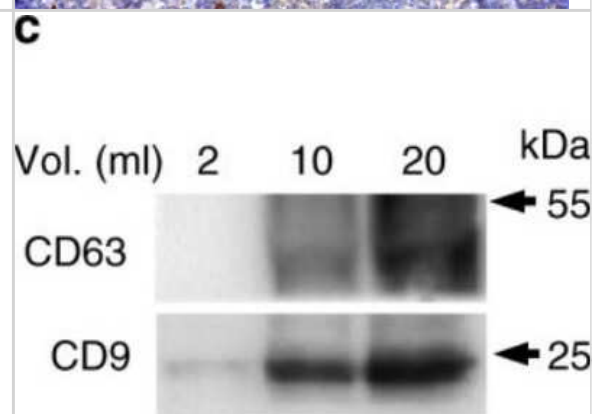
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Use in WB reported in scientific literature (PMID 30389917)

Images

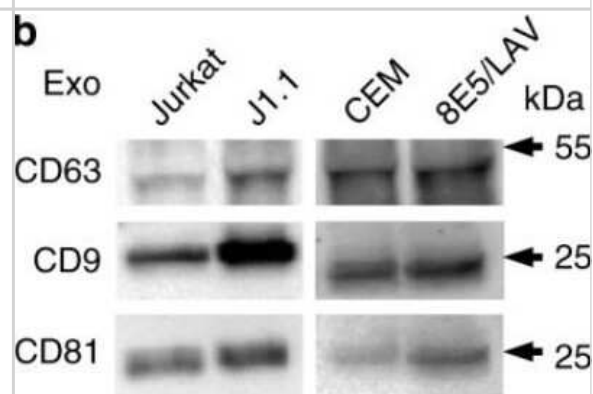
Immunohistochemistry-Paraffin: CD63 Antibody (NKI/C3) [NBP2-32829] - Formalin-fixed, paraffin-embedded Mouse Spleen stained with (DAB Chromogen)



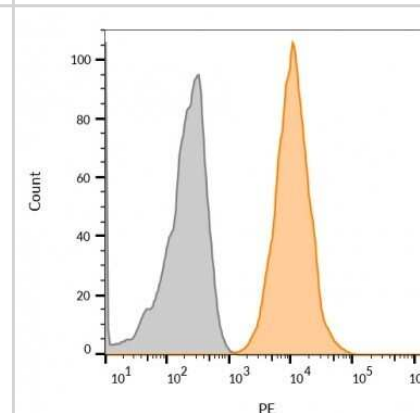
Western Blot: CD63 Antibody (NKI/C3) [NBP2-32829] - Characterization of exosomes from HIV-infected T cells. CD63 and CD9 immunoblot (left) and AChE assays (right) of J1.1 exosomes isolated from 2, 10, and 20 ml of culture supernatants. Image collected and cropped by Citeab from the following publication (Exosomes derived from HIV-1-infected cells promote growth and progression of cancer via HIV TAR RNA. Nat Commun (2018) licensed under a CC-BY license.



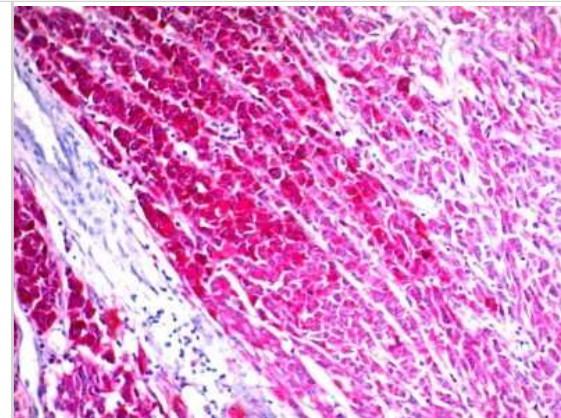
Western Blot: CD63 Antibody (NKI/C3) [NBP2-32829] - Characterization of exosomes from HIV-infected T cells. Immunoblot of CD63, CD9, and CD81 on proteins extracted from T-cell line exosomes (whole scans of blots in Supplementary Figure 1). Image collected and cropped by Citeab from the following publication (Exosomes derived from HIV-1-infected cells promote growth and progression of cancer via HIV TAR RNA. Nat Commun (2018) licensed under a CC-BY license.



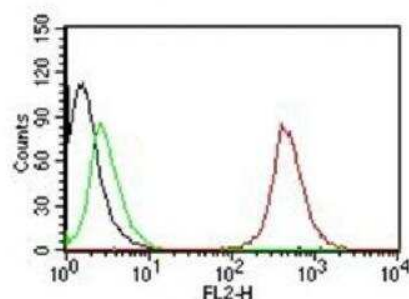
Flow Cytometry: CD63 Antibody (NKI/C3) [NBP2-32829] - Flow cytometry Analysis of live MCF-7 cells unstained (gray) or stained with biotin-labeled CD63 monoclonal antibody (NKI-C3) followed by streptavidin-CF568 (orange).



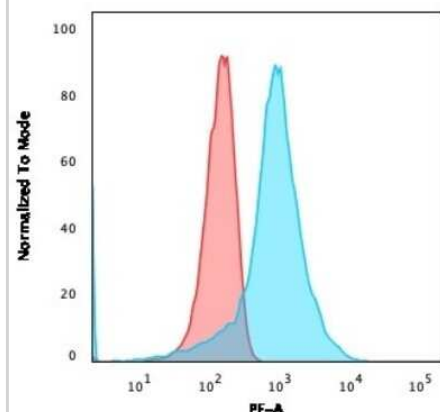
Immunohistochemistry-Paraffin: CD63 Antibody (NKI/C3) [NBP2-32829]
 - Formalin-fixed, paraffin-embedded human Melanoma stained with
 CD63 Antibody (NKI/C3) (AEC Chromogen)



Flow Cytometry: CD63 Antibody (NKI/C3) [NBP2-32829] - Human CD63 on MCF-7 cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled CD63 Monoclonal Antibody (NKI/C3).



Flow Cytometry: CD63 Antibody (NKI/C3) [NBP2-32829] - Flow Cytometric Analysis of U8G cells using PE-labeled CD63 Monoclonal Antibody (NKI/C3) Isotype Control (Red).



Publications

Wang Z, Wang H, Becker R et al. Acoustofluidic separation enables early diagnosis of traumatic brain injury based on circulating exosomes Microsyst Nanoeng 2021-09-27 [PMID: 34567734]

Nording H, Baron L, Haberthur D et al. The C5a/C5a receptor 1 axis controls tissue neovascularization through CXCL4 release from platelets Nat Commun 2021-06-08 [PMID: 34099640] (FLOW, Mouse)

Details:

Citation using the Azide and BSA Free format of this antibody.

Chen L, Feng Z, Yue H et al. Exosomes derived from HIV-1-infected cells promote growth and progression of cancer via HIV TAR RNA. Nat Commun. 2018-12-01 [PMID: 30389917] (WB, Human)

Takawale A, Zhang P, Patel VB et al. Tissue Inhibitor of Matrix Metalloproteinase-1 Promotes Myocardial Fibrosis by Mediating CD63-Integrin B1 Interaction. Hypertension. 2017-04-03 [PMID: 28373589]



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Products Related to NBP2-32829-0.1mg

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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