

# Product Datasheet

## CD63 Antibody (NK1/C3) - Azide and BSA Free NBP2-34694-0.1mg

Unit Size: 0.1 mg

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

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### Publications: 1

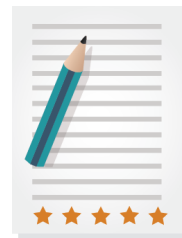
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**NBP2-34694-0.1mg**

CD63 Antibody (NKI/C3) - 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	NKI/C3
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS

Product Description	
Description	<p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA &amp; azide. Also available at 200 ug/ml WITH BSA &amp; azide (NBP2-32829).</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, 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

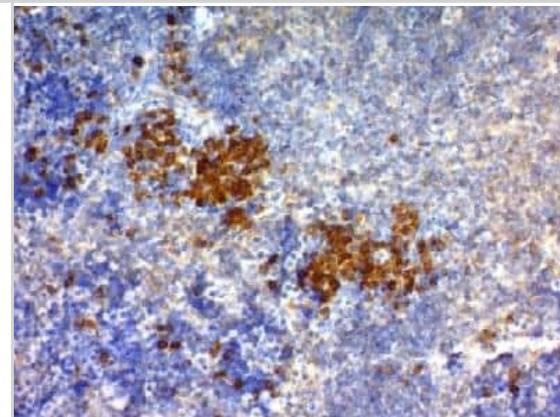


**Application Notes**

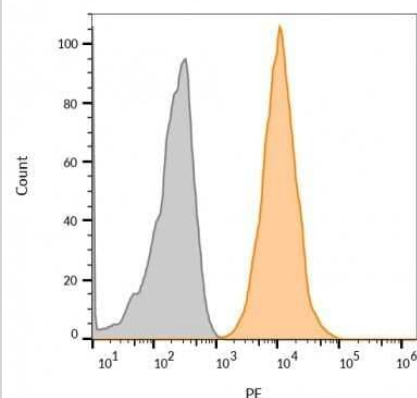
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Use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

**Images**

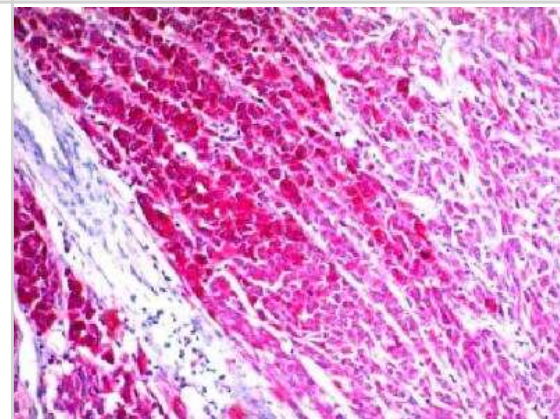
Immunohistochemistry-Paraffin: CD63 Antibody (NKI/C3) - Azide and BSA Free [NBP2-34694] - Formalin-fixed paraffin-embedded mouse spleen stained with CD63 Monoclonal Antibody (NKI/C3) (DAB Chromogen)



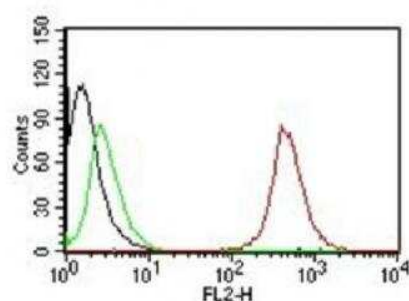
Flow Cytometry: CD63 Antibody (NKI/C3) - Azide and BSA Free [NBP2-34694] - Flow cytometry Analysis of live MCF-7 cells unstained (gray) or stained with biotin-labeled CD63 monoclonal antibody (NKI-C3) followed by streptavidin-CF568 (orange).



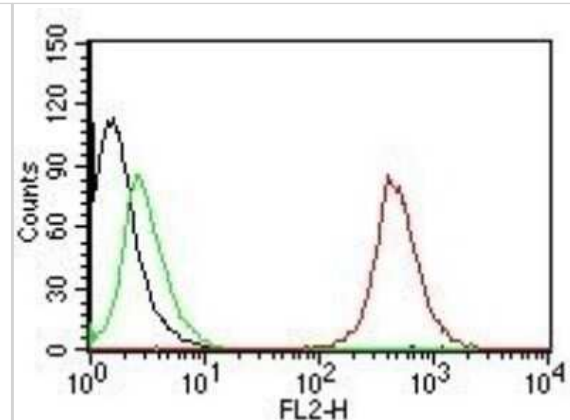
Immunohistochemistry-Paraffin: CD63 Antibody (NKI/C3) - Azide and BSA Free [NBP2-34694] - Formalin-fixed paraffin-embedded human Melanoma stained with CD63 Monoclonal Antibody (NKI/C3) (AEC Chromogen)



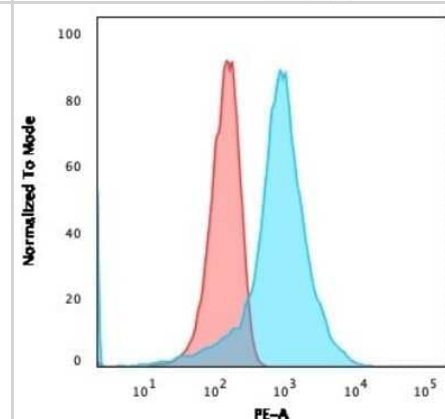
Flow Cytometry: CD63 Antibody (NKI/C3) - Azide and BSA Free [NBP2-34694] - Flow Cytometry of human CD63 on MCF-7 cells Black: cells alone; Green: Isotype control; Red: PE-labeled CD63 Monoclonal Antibody (NKI/C3)



Flow Cytometry: CD63 Antibody (NKI/C3) - Azide and BSA Free [NBP2-34694] - Flow Cytometric staining of human CD63 on MCF-7 cells. Black: cells alone; Green: Isotype Control; Red: CF488-labeled CD63 Monoclonal Antibody (NKI/C3).



Flow Cytometry: CD63 Antibody (NKI/C3) - Azide and BSA Free [NBP2-34694] - Flow Cytometric Analysis of U8G cells using PE-labeled CD63 Monoclonal Antibody (NKI/C3) Isotype Control (Red).



## Publications

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.



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### **Products Related to NBP2-34694-0.1mg**

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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

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### **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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