

# Product Datasheet

## NCAM-1/CD56 Antibody (123C3.D5) - Azide and BSA Free NBP2-33132

Unit Size: 0.1 mg

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

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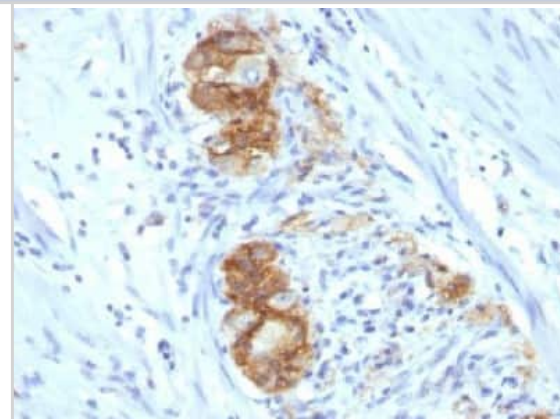
**NBP2-33132**

NCAM-1/CD56 Antibody (123C3.D5) - Azide and BSA Free

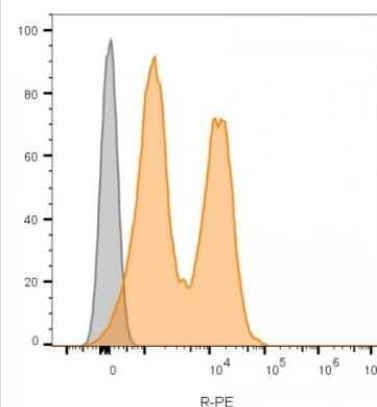
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20 to -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	123C3.D5
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS
<b>Product Description</b>	
<b>Description</b>	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 (NBP2-15184).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	4684
<b>Gene Symbol</b>	NCAM1
<b>Species</b>	Human, Rat
<b>Marker</b>	Neuronal Cell Marker
<b>Specificity/Sensitivity</b>	This monoclonal antibody reacts with an extracellular domain (close to transmembrane) of CD56/NCAM. Three isoforms of neural cell adhesion molecule (NCAM) are produced by differential splicing of the RNA transcript from a single gene. The 135kDa isoform is the basic molecule, which is glycosylated or sialylated to produce the mature species. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
<b>Immunogen</b>	Membrane preparation of a small cell lung carcinoma
<b>Product Application Details</b>	
<b>Applications</b>	Simple Western, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Simple Western, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Flow (Cell Surface)
<b>Application Notes</b>	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. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. Separated by Size.

## Images

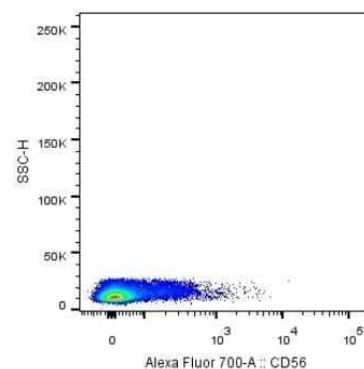
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (123C3.D5) - Azide and BSA Free [NBP2-33132] - Formalin-fixed paraffin-embedded human colon Ganglion stained with CD56 Monoclonal antibody (123C3.D5)



Flow Cytometry: NCAM-1/CD56 Antibody (123C3.D5) - Azide and BSA Free [NBP2-33132] - Flow cytometry of lymphocyte gated PBMCs unstained (gray) or stained with CF568-labeled NCAM-1/CD56 antibody (123C3.D5) (orange).



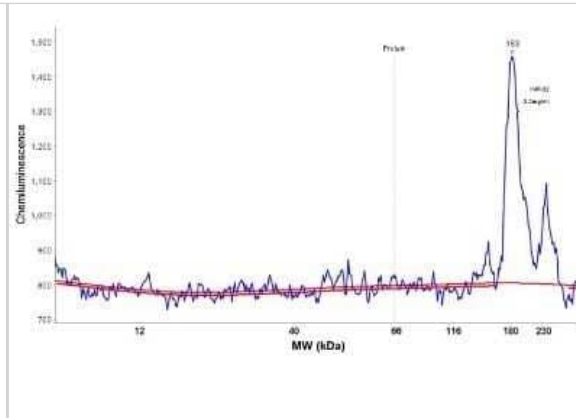
Flow Cytometry: NCAM-1/CD56 Antibody (123C3.D5) - Azide and BSA Free [NBP2-33132] - Analysis of AF700 conjugated CD56 in human PBMC using anti-CD56 antibody. The primary antibody was used at a dilution of 1:100, incubated for 25 min at 4C in 2% human serum, 0.5 mM EDTA in DPBS. Image from verified customer review.



Simple Western: NCAM-1/CD56 Antibody (123C3.D5) - Azide and BSA Free [NBP2-33132] - Simple Western lane view shows a specific band for NCAM-1/CD56 in 0.2 mg/ml of IMR-32 lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: NCAM-1/CD56 Antibody (123C3.D5) - Azide and BSA Free [NBP2-33132] - Electropherogram image of the corresponding Simple Western lane. NCAM-1/CD56 antibody was used at 10 ug/ml dilution of IMR-32 lysates(s) respectively.



## Publications

Jarosch S, KOhlen J, Sarker R Et al. Multiplexed imaging and automated signal quantification in formalin-fixed paraffin-embedded tissues by ChipCytometry Cell Rep Methods 2022-04-27 [PMID: 35475000]

Lassiter BP, Guo S, Beebe SJ. Nano-Pulse Stimulation Ablates Orthotopic Rat Hepatocellular Carcinoma and Induces Innate and Adaptive Memory Immune Mechanisms that Prevent Recurrence. Cancers (Basel) 2018-03-13 [PMID: 29533981] (Rat)

### Details:

This citation used the Azide and BSA Free version of this antibody.



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### **Products Related to NBP2-33132**

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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)
NBP3-07122-50ug	Recombinant Human NCAM-1/CD56 His 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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