

Product Datasheet

NCAM-1/CD56 Antibody (123C3.D5)

NBP2-15184-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-15184-0.1mg

NCAM-1/CD56 Antibody (123C3.D5)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	123C3.D5
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	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. (NBP2-33132) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4684
Gene Symbol	NCAM1
Species	Human, Rat
Marker	Neuronal Cell Marker
Specificity/Sensitivity	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.
Immunogen	Membrane preparation of a small cell lung carcinoma

Product Application Details	
Applications	Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Simple Western 10 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Flow (Cell Surface)

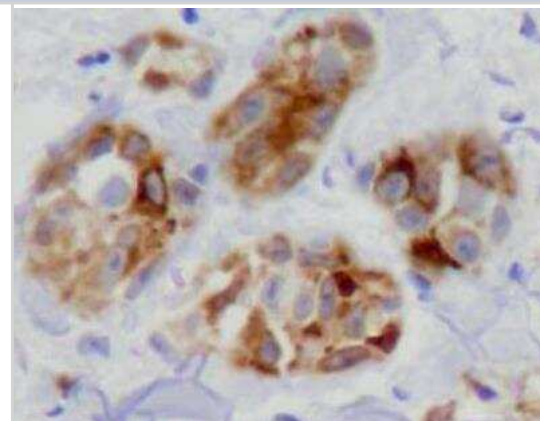


Application Notes

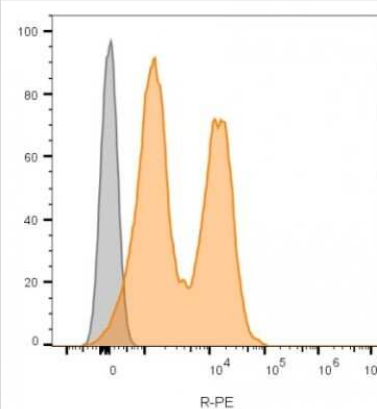
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See [Simple Western Antibody Database](#) for Simple Western validation: Tested in IMR-32 lysate(s), separated by Size, antibody dilution of 10 ug/mL, apparent MW was 183 kDa.

Images

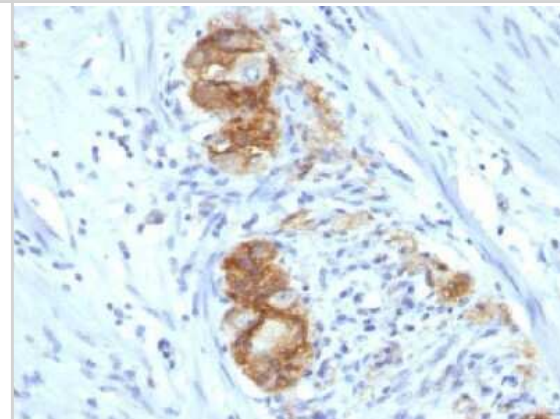
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (123C3.D5) [NBP2-15184] - Analysis of NCAM-1/CD56 antibody (123C3.D5) on Human colon tissue. Incubation: 1 ug/ml for 30 minutes at room temperature. Image from verified customer review.



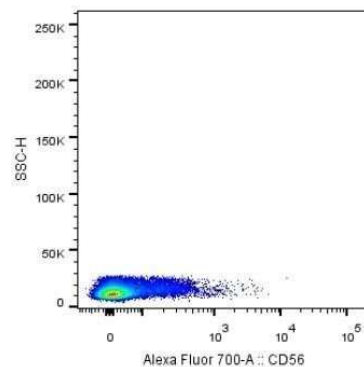
Flow Cytometry: NCAM-1/CD56 Antibody (123C3.D5) [NBP2-15184] - Flow cytometry of lymphocyte gated PBMCs unstained (gray) or stained with CF568-labeled NCAM-1/CD56 antibody (123C3.D5) (orange).



Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (123C3.D5) [NBP2-15184] - Formalin-fixed, paraffin-embedded human colon Ganglion stained with CD56 Monoclonal Antibody (123C3.D5)



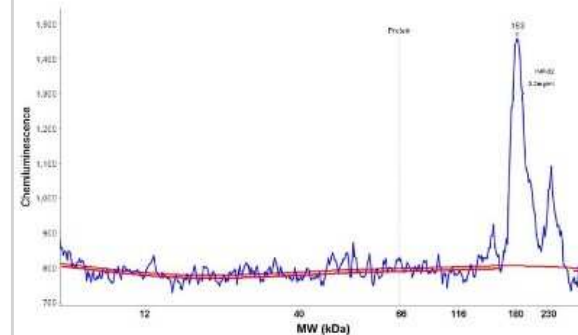
Flow Cytometry: NCAM-1/CD56 Antibody (123C3.D5) [NBP2-15184] - Analysis using the Azide and BSA Free version of NBP2-15184. Staining of AF700 conjugated CD56 in human PBMC using anti-CD56 antibody. The primary antibody was used at a dilution of 1:100, incubated for 25 min at 4C in 2% human serum, 0.5 mM EDTA in DPBS. Image from verified customer review.



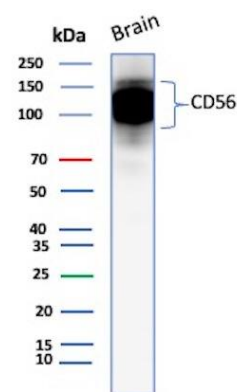
Simple Western: NCAM-1/CD56 Antibody (123C3.D5) [NBP2-15184] - Simple Western lane view shows a specific band for NCAM-1/CD56 in 0.2 mg/ml of IMR-32 lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: NCAM-1/CD56 Antibody (123C3.D5) [NBP2-15184] - 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.



Western blot analysis of Human Brain tissue lysates using NCAM-1/CD56 Antibody (123C3.D5).



Publications

Foy NJ, Forbes KC, Crooke AM et al. Dual Lewis Acid/Photoredox-Catalyzed Addition of Ketyl Radicals to Vinylogous Carbonates in the Synthesis of 2,6-Dioxabicyclo[3.3.0]octan-3-ones. *Organic letters* 2019-03-04 [PMID: 30188722]

Cabral P, Chinn M, Mack J et al. Psychosocial and Cultural Processes Underlying the Epidemiological Paradox within U.S. Latino Sexual Risk: A Systematic Review *Behavioral Sciences* 2023-03-05 [PMID: 36975251]

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.

Du Z, Bondarenko O, Wang D et al. Ex Vivo Assay of Electrical Stimulation to Rat Sciatic Nerves: Cell Behaviors and Growth Factor Expression. *J. Cell. Physiol.* 2015-10-30 [PMID: 26516696] (IHC-P, Rat)

Schol DJ, Mooi WJ, van der Gugten AA et al. Monoclonal antibody 123C3, identifying small cell carcinoma phenotype in lung tumours, recognizes mainly, but not exclusively, endocrine and neuron-supporting normal tissues. *Int J Cancer Suppl.* 1988-01-01 [PMID: 2832332]

Mooi WJ, Wagenaar SS, Schol D, Hilgers J. Monoclonal antibody 123C3 in lung tumour classification. Immunohistology of 358 resected lung tumours. *Mol Cell Probes.* 1988-03-01 [PMID: 2837665]

Brezicka FT, Olling S, Bergman B et al. Immunohistochemical detection of two small cell lung carcinoma-associated antigens defined by MAbs F12 and 123C3 in bronchoscopy biopsy tissues. *APMIS.* 1991-09-01 [PMID: 1654059]





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Products Related to NBP2-15184-0.1mg

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