

# Product Datasheet

## NCAM-1/CD56 Antibody (123C3.D5 + 123A8) NBP2-34280-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-34280-0.1mg**

NCAM-1/CD56 Antibody (123C3.D5 + 123A8)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	123C3.D5 + 123A8
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa/IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

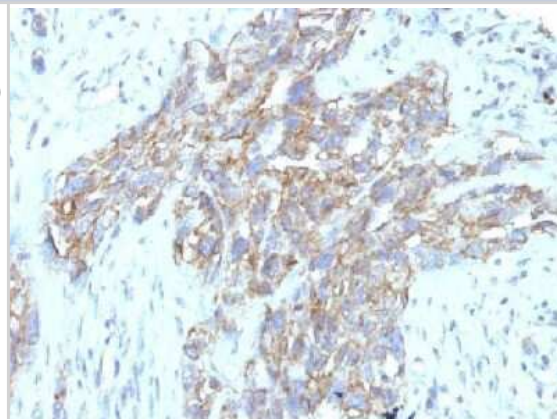
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34519)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4684
Gene Symbol	NCAM1
Species	Human
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	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	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 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.

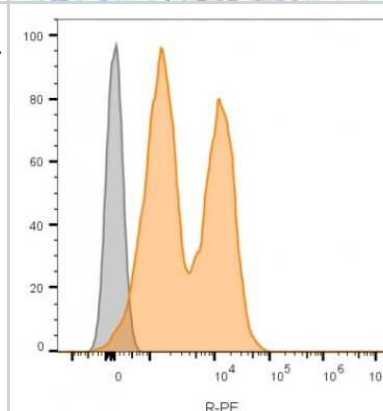


## Images

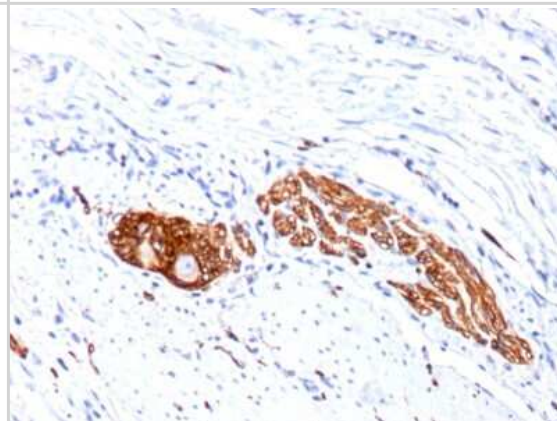
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (123C3.D5 + 123A8) [NBP2-34280] - Formalin-fixed, paraffin-embedded human Lung Carcinoma stained with CD56 Monoclonal Antibody (123C3.D5 + 123A8)



Flow Cytometry: NCAM-1/CD56 Antibody (123C3.D5 + 123A8) [NBP2-34280] - Flow cytometry of lymphocyte gated PBMCs unstained (gray) or stained with CF568-labeled NCAM-1/CD56 antibody (123C3.D5 + 123A8) (orange).



Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (123C3.D5 + 123A8) [NBP2-34280] - Analysis using the Azide and BSA Free version of NBP2-34280. Staining of human colon ganglion stained with CD56 MAb (123C3.D5+123A8).



## Publications

Gunnarsdottir F, Briem O, Lindgren A et al. Breast cancer associated CD169+ macrophages possess broad immunosuppressive functions but enhance antibody secretion by activated B cells *Frontiers in Immunology* 2023-06-19 [PMID: 37404831] (IHC, Mouse)



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### **Products Related to NBP2-34280-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP3-07122-50ug	Recombinant Human NCAM-1/CD56 His Protein
210-TA-005	TNF-alpha [Unconjugated]

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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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