

# Product Datasheet

## NCAM-1/CD56 Antibody (SPM128) - Azide and BSA Free NBP2-34397-0.1mg

Unit Size: 0.1 mg

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

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**NBP2-34397-0.1mg**

NCAM-1/CD56 Antibody (SPM128) - 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	SPM128
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS

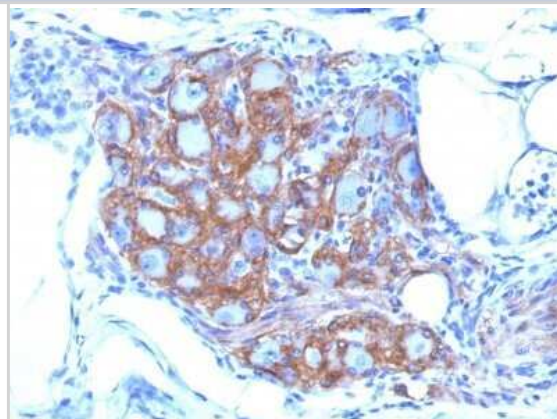
Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-34349).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4684
Gene Symbol	NCAM1
Species	Human, Rat, Zebrafish
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, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Simple Western, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2ug/ml, Immunohistochemistry-Paraffin 0.5-1ug/ml, Flow (Cell Surface), CyTOF-ready
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.

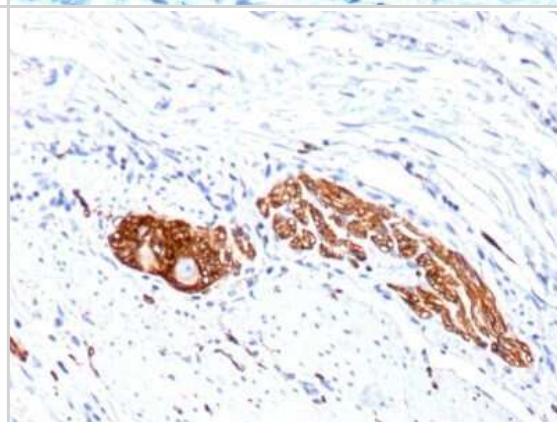


## Images

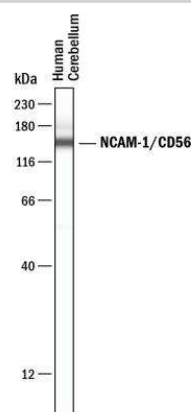
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (SPM128) - Azide and BSA Free [NBP2-34397] - Formalin-fixed, paraffin-embedded human Pancreas stained with NCAM-1/CD56 Antibody (SPM128)



Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (SPM128) - Azide and BSA Free [NBP2-34397] - Formalin-paraffin human colon ganglion stained with CD56 MAb (SPM128)



Simple Western: NCAM-1/CD56 Antibody (SPM128) - Azide and BSA Free [NBP2-34397] - Detection of NCAM-1/CD56 by Simple Western™. Simple Western lane view shows lysates of human cerebellum. A specific band was detected for NCAM-1/CD56 at approximately 147 kDa (as indicated) using 10 ug/mL of Mouse Anti-NCAM-1/CD56 Monoclonal Antibody (Catalog # NBP2-34397). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## Publications

Sundberg M, Pinson H, Smith RS et al. 16p11.2 deletion is associated with hyperactivation of human iPSC-derived dopaminergic neuron networks and is rescued by RHOA inhibition in vitro Nat Commun 2021-05-19 [PMID: 34006844]

Details:

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

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**Products Related to NBP2-34397-0.1mg**

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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