

# Product Datasheet

## NCAM-1/CD56 Antibody - BSA Free NBP2-38452

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 3

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**NBP2-38452**

NCAM-1/CD56 Antibody - BSA Free

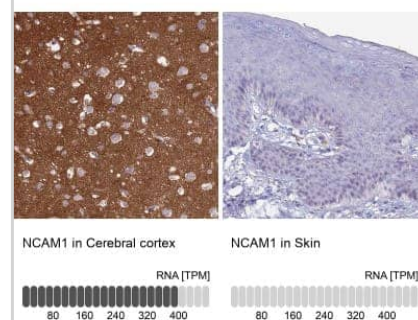
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

Product Description	
<b>Description</b>	Novus Biologicals Rabbit NCAM-1/CD56 Antibody - BSA Free (NBP2-38452) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-NCAM-1/CD56 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	4684
<b>Gene Symbol</b>	NCAM1
<b>Species</b>	Human
<b>Immunogen</b>	This antibody was developed against a recombinant protein corresponding to amino acids: DSEDFGNYNCTAVNRIGQESLEFILVQADTPSSPSIDQVEPYSSTAQVQFDEP EATGGVPILKYKAEWRAVGEEVWHSKWYDAK

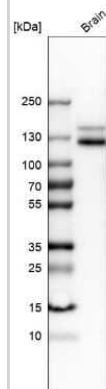
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

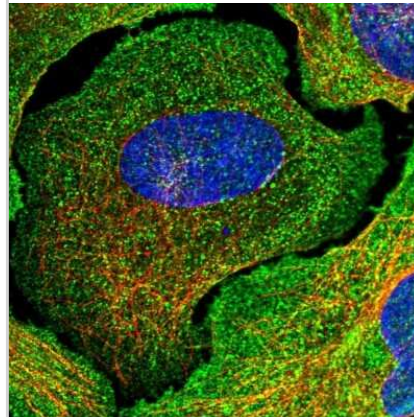
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody [NBP2-38452] - Staining in human cerebral cortex and skin tissues.. Corresponding NCAM1 RNA-seq data are presented for the same tissues.



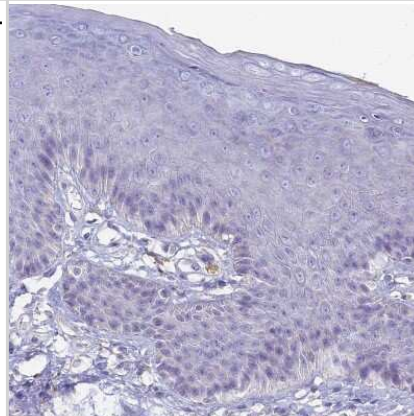
Western Blot: NCAM-1/CD56 Antibody [NBP2-38452] - Analysis in human brain tissue.



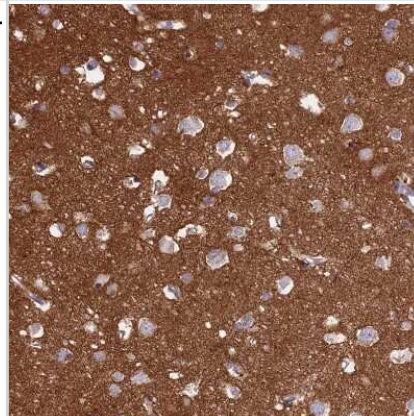
Immunocytochemistry/Immunofluorescence: NCAM-1/CD56 Antibody [NBP2-38452] - Staining of human cell line U-2 OS shows localization to plasma membrane & cytosol. Antibody staining is shown in green.



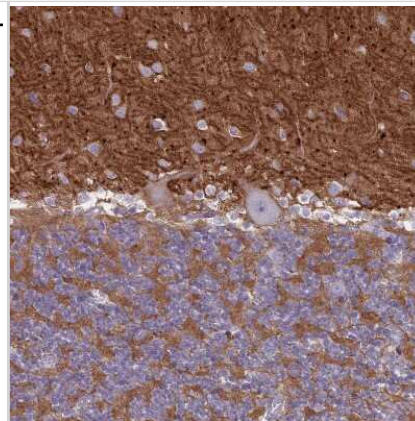
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody [NBP2-38452] - Staining of human skin shows no positivity in keratinocytes.



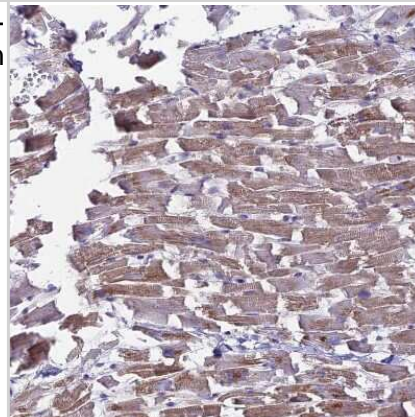
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody [NBP2-38452] - Staining of human cerebral cortex shows strong cytoplasmic positivity in neuropil.



Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody [NBP2-38452] - Staining of human cerebellum shows moderate to strong cytoplasmic positivity in cells in granular layer.



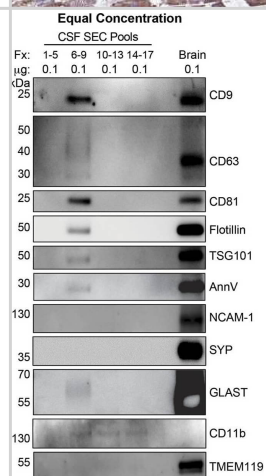
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody [NBP2-38452] - Staining of human heart muscle shows moderate cytoplasmic positivity in cardiomyocytes.



CSF EVs isolated by SEC are enriched for exosome and MV markers.

(A) Equal volume loading of protein lysate (37  $\mu$ L) from pools of SEC Fractions (Fxs): 1–5 (column void volume), 6–9, 10–13, and 14–17 stained for total protein, and immunoblotted for albumin, APOA1, and APOE. (B) Equal concentration loading of protein lysate (0.1  $\mu$ g) from pools of Fxs 1–5, 6–9, 10–13, and 14–17 immunoblotted for CD9, CD63, CD81, flotillin, TSG101, AnnV, SYP, NCAM-1, GLAST, CD11b, and TMEM119. (C) Equal concentration loading of (1  $\mu$ g) from pools of Fxs 1–5, 6–9, 10–13, and 14–17 immunoblotted for SYP and CD11b.

Postmortem human cerebral cortex protein lysate (0.1  $\mu$ g and 1  $\mu$ g) was run as a positive control for each gel ((A-C): Brain). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35573689>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Sandau US, McFarland TJ, Smith SJ et al. Differential Effects of APOE Genotype on MicroRNA Cargo of Cerebrospinal Fluid Extracellular Vesicles in Females With Alzheimer's Disease Compared to Males *Frontiers in cell and developmental biology* 2022-04-27 [PMID: 35573689] (WB, Human)

Han SJ, Sung N, Wang J et al. Steroid receptor coactivator-3 inhibition generates breast cancer antitumor immune microenvironment *Breast cancer research : BCR* 2022-10-31 [PMID: 36316775] (IHC-P, Mouse)

### Details:

Dilution used in IHC 1:300

Zhao K, Jiang L, Si Y et al. TIGIT blockade enhances tumor response to radiotherapy via a CD103 + dendritic cell-dependent mechanism *Cancer immunology, immunotherapy : CII* 2022-07-06 [PMID: 35794399] (IHC-P, Human)



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### **Products Related to NBP2-38452**

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NBP2-38452PEP	NCAM-1/CD56 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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