

# Product Datasheet

## NCAM-1/CD56 Antibody (JF1021) NBP2-66968

Unit Size: 100 ul

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

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**NBP2-66968**

NCAM-1/CD56 Antibody (JF1021)

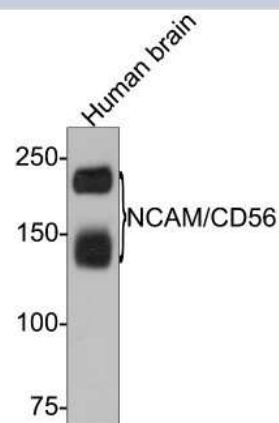
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JF1021
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	4684
Gene Symbol	NCAM1
Species	Human, Mouse, Zebrafish
Immunogen	Synthetic peptide within C-terminal human NCAM-1/CD56. (SwissProt: P13591 Human; SwissProt: P13595 Mouse)

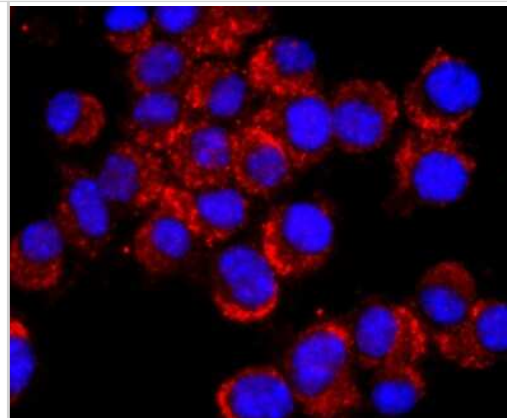
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Multiplex Immunoassay
Recommended Dilutions	Western Blot 1:1000-1:5000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:50-1:200, Multiplex Immunoassay Multiplex IHC: 1:1000

**Images**

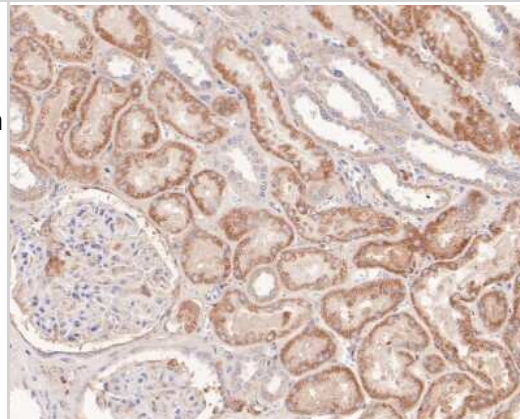
Western Blot: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968] - Analysis of NCAM-1/CD56 on human brain tissue lysates with Rabbit anti-NCAM/CD56 antibody at 1/2,000 dilution. Lysates/proteins at 20 ug/Lane. Predicted band size: 95 kDa Observed band size: 140/180 kDa Exposure time: 30 seconds; 6% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:300,000 dilution was used for 1 hour at room temperature.



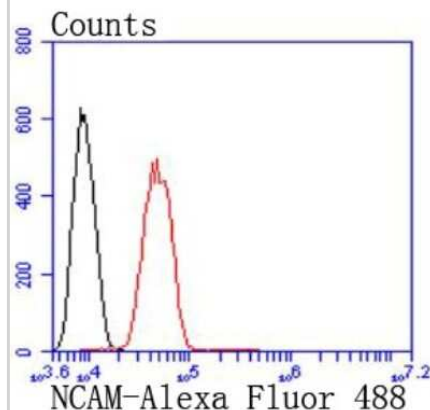
**Immunocytochemistry/Immunofluorescence: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968]** - Staining NCAM in N2A cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



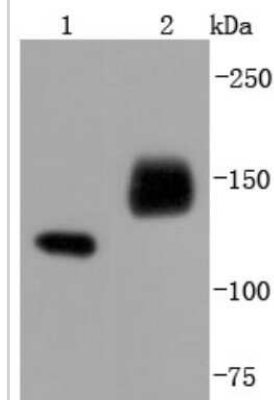
**Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968]** - Analysis of paraffin-embedded human kidney tissue with Rabbit anti-NCAM-1/CD56 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



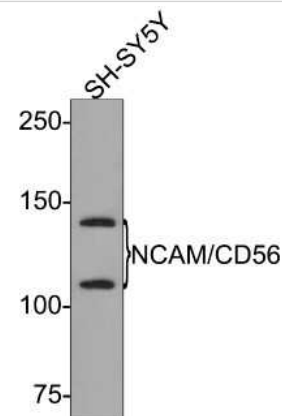
**Flow Cytometry: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968]** - Analysis of SH-SY-5Y cells with NCAM antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



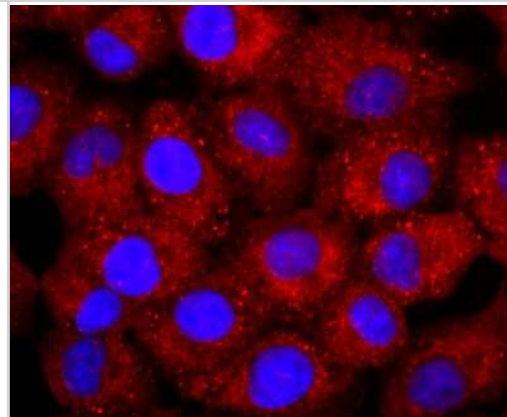
**Western Blot: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968]** - Analysis of NCAM on different lysates using anti-NCAM antibody at 1/1,000 dilution. Positive control: Lane 1: SH-SY-5Y Lane 2: Human brain



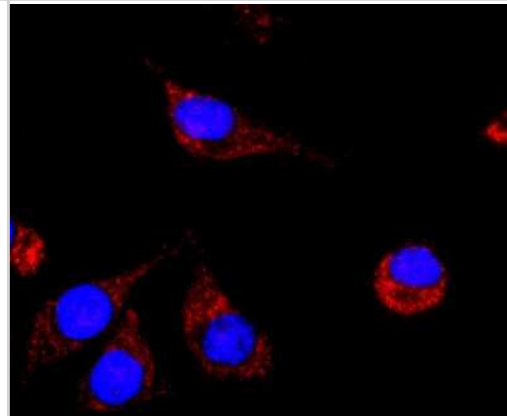
Western Blot: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968] - Analysis of NCAM-1/CD56 on SH-SY5Y cell lysates with Rabbit anti-NCAM-1/CD56 antibody at 1/500 dilution. Lysates/proteins at 10 ug/Lane. Predicted band size: 95 kDa Observed band size: 120/140 kDa Exposure time: 2 minutes; 6% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:300,000 dilution was used for 1 hour at room temperature.



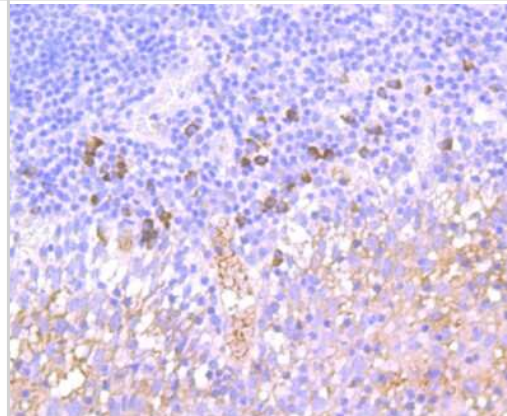
Immunocytochemistry/Immunofluorescence: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968] - Staining NCAM in A549 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



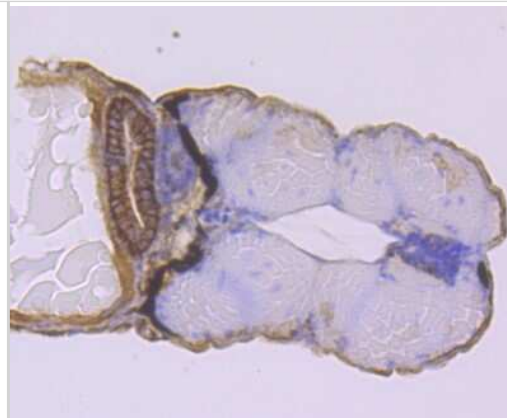
Immunocytochemistry/Immunofluorescence: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968] - Staining NCAM in SH-SY-5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



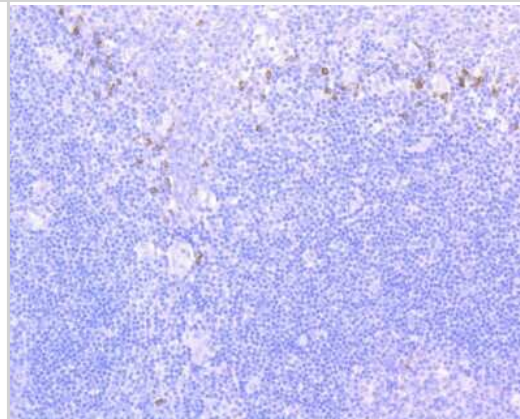
Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968] - Analysis of paraffin-embedded human tonsil tissue using anti-NCAM antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968] - Analysis of paraffin-embedded zebrafish kidney tissue using anti-NCAM antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: NCAM-1/CD56 Antibody (JF1021) [NBP2-66968] - Analysis of paraffin-embedded human tonsil tissue using anti-NCAM-1/CD56 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Publications

Schiapparelli LM, Xie Y, Sharma P et al. Activity-Induced Cortical Glutamatergic Neuron Nascent Proteins The Journal of neuroscience : the official journal of the Society for Neuroscience 2022-10-19 [PMID: 36261270] (WB, Mouse)





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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
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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