

Anti-NCAM1 / CD56 Antibody

R1204-1



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 95 kDa

Description: Neural Cell Adhesion Molecule (NCAM, also the cluster of differentiation CD56) is a homophilic binding glycoprotein expressed on the surface of neurons, glia, skeletal muscle and natural killer cells. NCAM has been implicated as having a role in cell-cell adhesion, neurite outgrowth, synaptic plasticity, and learning and memory. NCAM is a glycoprotein of Immunoglobulin (Ig) superfamily. The three main isoforms of NCAM vary only in their cytoplasmic domain: NCAM-120kDa (GPI anchored), NCAM-140kDa (short cytoplasmic domain) and NCAM-180kDa (long cytoplasmic domain).

Immunogen: Synthetic peptide corresponding to Mouse NCAM1 aa 101-150 / 1,115 mouse.

Positive control: SH-SY5Y cell lysate, NCCIT cell lysate, F9 cell lysate, C6 cell lysate, mouse brain tissue lysate, rat brain tissue lysate, SH-SY5Y, N2A.

Subcellular location: Cell membrane, secreted

Database links: SwissProt: P13591 Human | P13595 Mouse | P13596 Rat

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:50

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

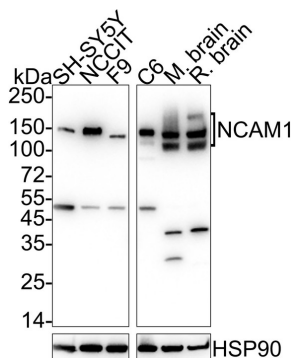
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of NCAM1 / CD56 on different lysates with Rabbit anti-NCAM1 / CD56 antibody (R1204-1) at 1/1,000 dilution.



Lane 1: SH-SY5Y cell lysate (20 µg/Lane)
 Lane 2: NCCIT cell lysate (20 µg/Lane)
 Lane 3: F9 cell lysate (20 µg/Lane)
 Lane 4: C6 cell lysate (20 µg/Lane)
 Lane 5: Mouse brain tissue lysate (40 µg/Lane)
 Lane 6: Rat brain tissue lysate (40 µg/Lane)

Predicted band size: 95 kDa

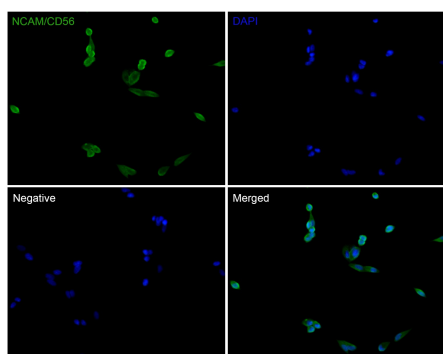
Observed band size: 120-180 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% 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 (R1204-1) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of SH-SY5Y cells labeling NCAM1 / CD56 with Rabbit anti-NCAM1 / CD56 antibody (R1204-1) at 1/50 dilution.



Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-NCAM1 / CD56 antibody (R1204-1) at 1/50 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

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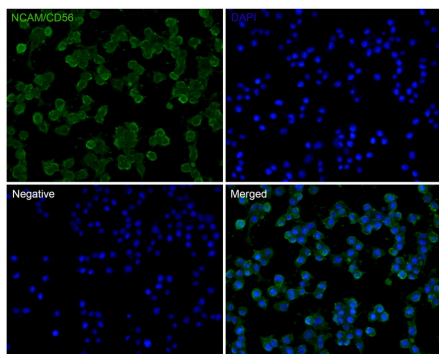


Fig3: Immunocytochemistry analysis of N2A cells labeling NCAM1 / CD56 with Rabbit anti-NCAM1 / CD56 antibody (R1204-1) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-NCAM1 / CD56 antibody (R1204-1) at 1/50 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "Molecular and functional analysis of human natural killer cell-associated neural cell adhesion molecule (N-CAM/CD56)." Lanier L.L., Chang C., Azuma M., Ruitenberg J.J., Hemperly J.J., Phillips J.H.J. Immunol. 146:4421-4426(1991)
2. "Phosphoproteomic analysis of synaptosomes from human cerebral cortex." DeGiorgis J.A., Jaffe H., Moreira J.E., Carlotti C.G. Jr., Leite J.P., Pant H.C., Dosemeci A.J. Proteome Res. 4:306-315(2005)

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