

# Anti-NCAM1 Antibody

## R1204-1



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	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:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:50

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

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

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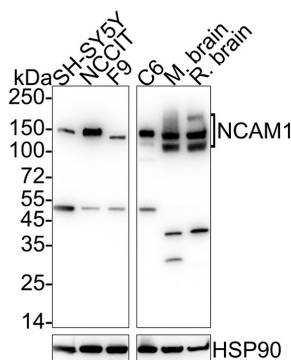
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## Images



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

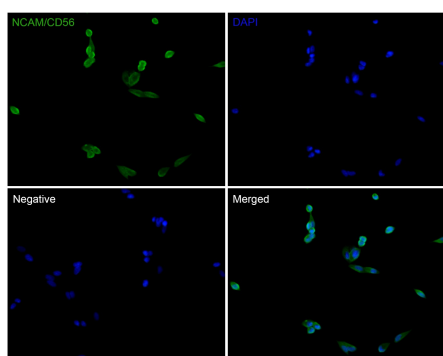
Lane 1: SH-SY5Y cell lysate (20 µg/Lane)  
 Lane 2: NCCIT cell lysate (20 µg/Lane)  
 Lane 3: F9 cell lysate (20 µg/Lane)  
 Lane 4: C6 cell lysate (20 µg/Lane)  
 Lane 5: Mouse brain tissue lysate (40 µg/Lane)  
 Lane 6: Rat brain tissue lysate (40 µg/Lane)

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 with Rabbit anti-NCAM1 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 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.

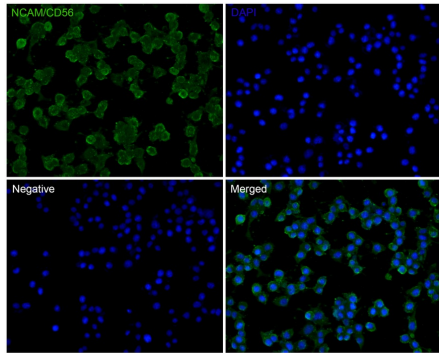
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**Fig3:** Immunocytochemistry analysis of N2A cells labeling NCAM1 with Rabbit anti-NCAM1 antibody (R1204-1) at 1/50 dilution.

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 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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