

Rabbit Anti-CD56 antibody

SL0805R

Product Name CD56

Chinese Name 神经 Cell adhesion molecule1 抗体

Alias CD56 antigen; Cell Adhesion Molecule Neural 1; MSK39; N CAM 120; N CAM 140; N CAM 180; NCAM1; NCAM 120; NCAM 140; NCAM1; Neural cell adhesion molecule 1 120 kDa isoform; adhesion molecule 1 140 kDa isoform; Neural cell adhesion molecule 1; NCAM1_HUMAN.

Research Area Tumour Neurobiology Stem cells Cell adhesion molecule Cell type markers

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat, (predicted: Chicken, Dog, Pig, Cow, Horse, Rabbit, Guinea Pig,)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-C
(Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 92kDa

Cellular localization The cell membrane Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human CD56: 621-720/858 <Extracellular>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein has been shown to be involved in development of the nervous system and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2015]

Function:

This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation and growth of neurites, etc.

Subcellular Location:

Isoform 1, 2,: Cell membrane; Single-pass type I membrane protein. Isoform 3, 4: Cell membrane; Lipid-anchor, GPI-anchor. Isoform 5, 6: Secreted.

Similarity:

Contains 2 fibronectin type-III domains.

Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:

P13591

**Product
Detail**

Gene ID:

4684

Database links:

[Entrez Gene: 4684](#) Human

[Entrez Gene: 17967](#) Mouse

[Entrez Gene: 24586](#) Rat

[Omim: 116930](#) Human

[SwissProt: P13591](#) Human

[SwissProt: P13595](#) Mouse

[SwissProt: P13596](#) Rat

[Unigene: 503878](#) Human

[Unigene: 711235](#) Human

[Unigene: 733031](#) Human

[Unigene: 439182](#) Mouse

[Unigene: 4974](#) Mouse

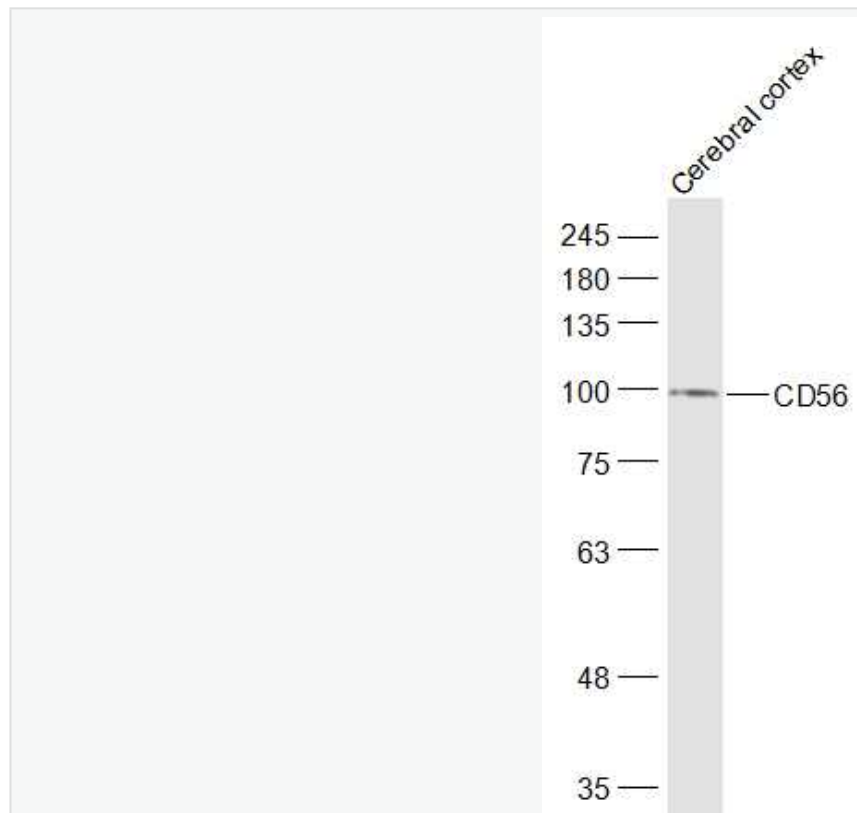
[Unigene: 11283](#) Rat

细胞粘附蛋白 (Cell Adhesion Protein)
神经元 Marker

NCAM-1 为神经 Cell adhesion molecule, 主要分布于神经组织, 神经—肌肉接头, 神经—某些内分泌腺以及大多数神经外胚层来源的细胞、组织和 Tumour 中。

NCAM 1 主要用于视网膜母细胞瘤、髓母细胞瘤、星形细胞瘤、神经母细胞瘤等 Tumour 。

Product
Picture



Sample:

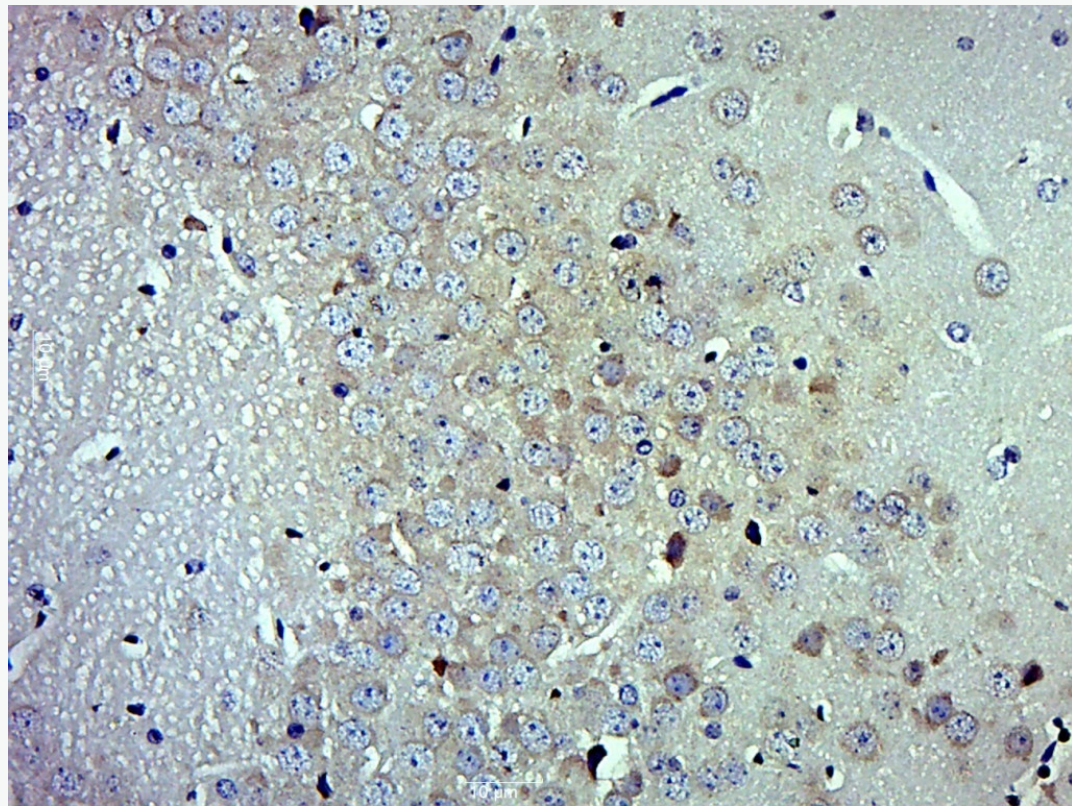
Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti-CD56 (SL0805R) at 1/1000 dilution

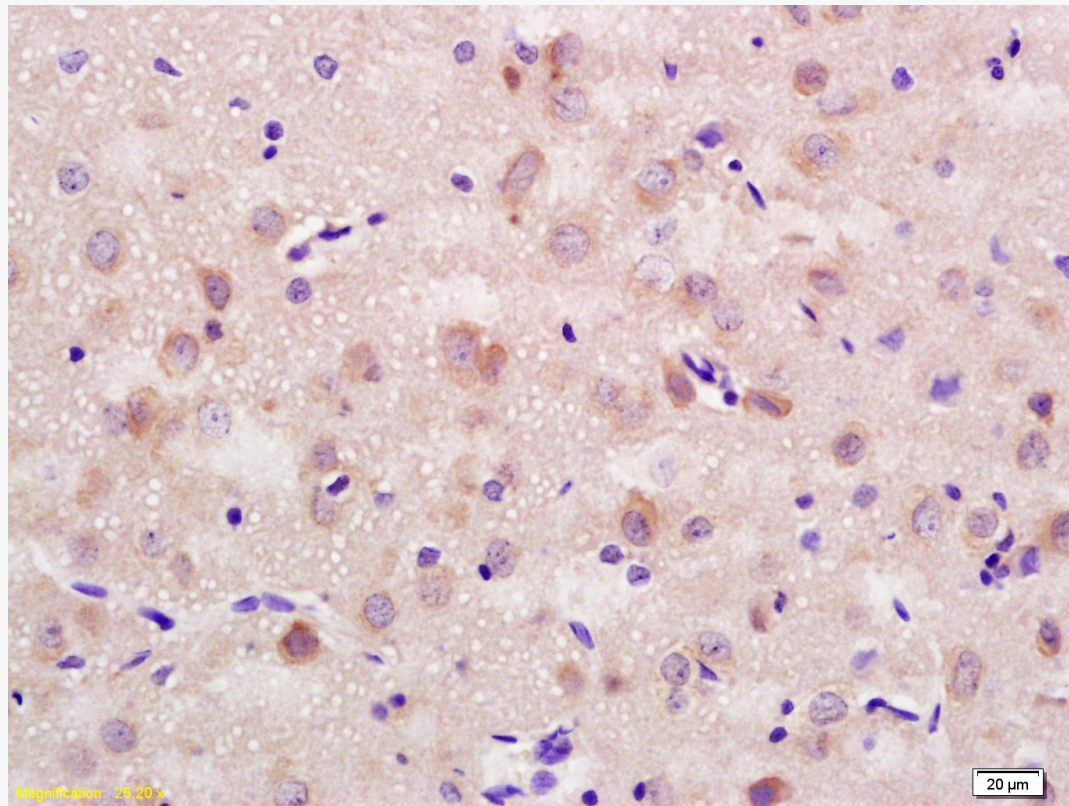
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 92 kD

Observed band size: 95 kD



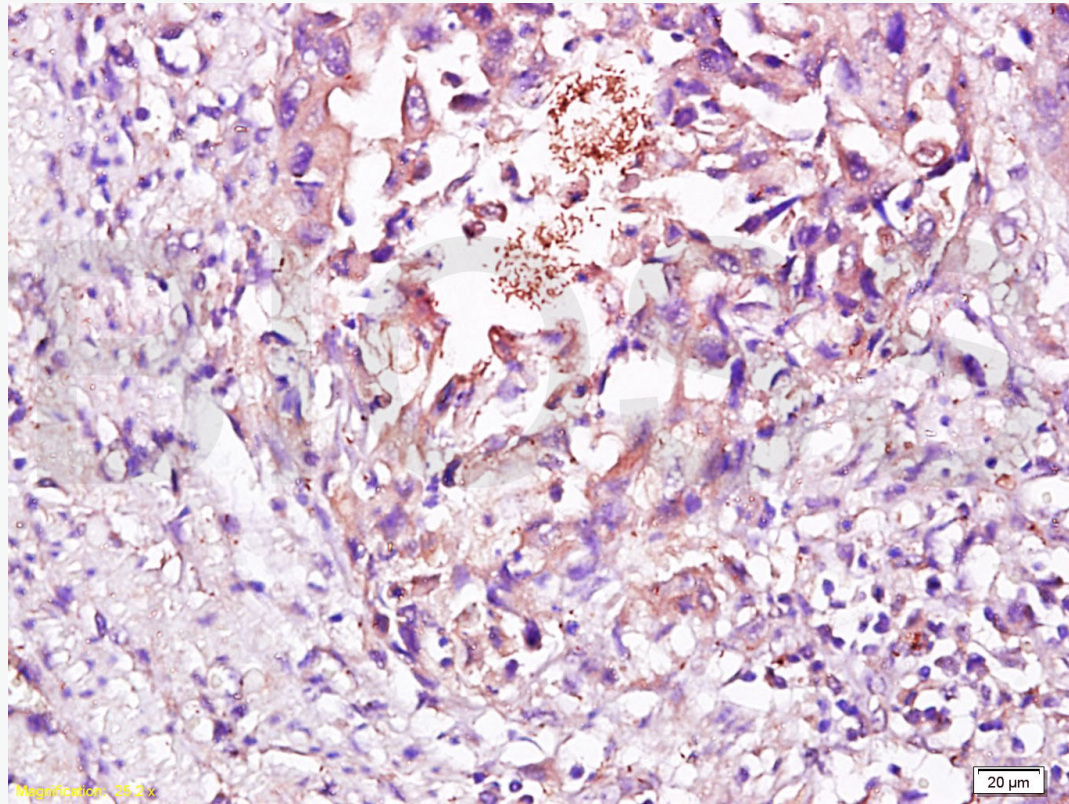
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD56) Polyclonal Antibody, Unconjugated (SL0805R) at 1:500 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



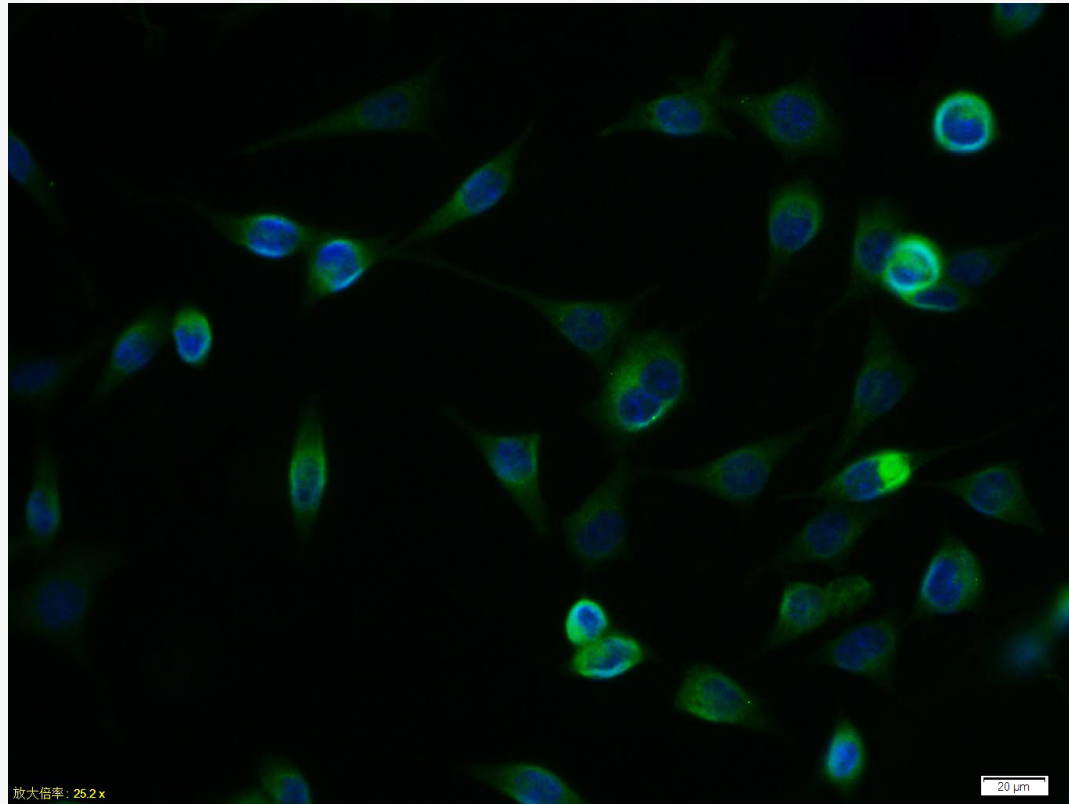
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 1h

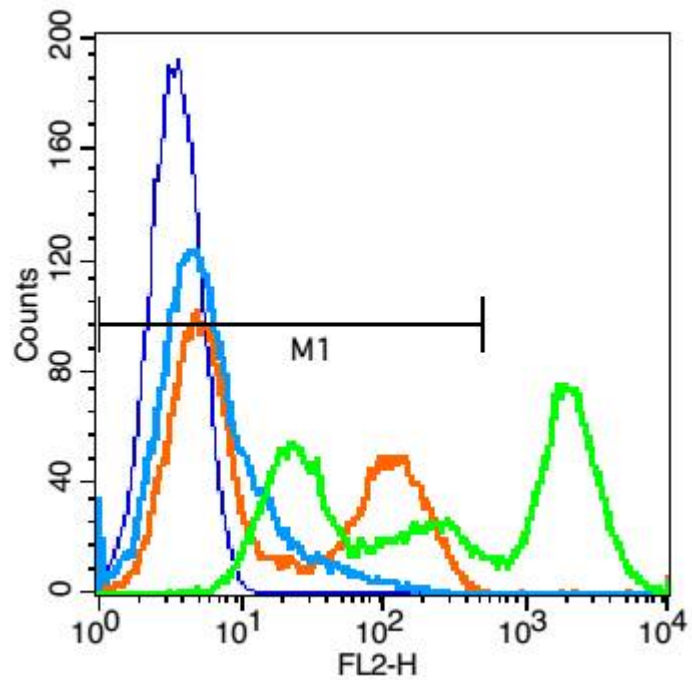
Incubation: Anti-CD56/NCAM1 Polyclonal Antibody, Unconjugated(SL0805R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Human esophageal carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous
by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C fo
Incubation: Anti-CD56/NCAM1 Polyclonal Antibody, Unconjugated(SL0805R) 1:200, overn
followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell:SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 30 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (C-0005) polyclonal Antibody, Unconjugated (SL0805R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) v stain the cell nuclei.



Blank control: Jurkat cells(blue).

Primary Antibody:Rabbit Anti-CD56 antibody(SL0805R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange),used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) . Primary antibody (SL0805R, 1 μ g / 100 μ L cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% FBS (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE (1:200) was added into the blocking buffer mentioned above to react with the primary antibody at 1/200



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for 30 min on ice. Acquisition of 20,000 events was performed.