

For Research Use Only

NCAM1/CD56 Polyclonal antibody

Catalog Number: 14255-1-AP

Featured Product

48 Publications



Basic Information

| | | |
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| Catalog Number: 14255-1-AP | GenBank Accession Number: BC047244 | Purification Method: Antigen affinity purification |
| Size: 700 µg/ml | GeneID (NCBI): 4684 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:20000 |
| Source: Rabbit | ENSEMBL Gene ID: ENSG00000149294 | |
| Isotype: IgG | UNIPROT ID: P13591 | |
| Immunogen Catalog Number: AG5528 | Full Name: neural cell adhesion molecule 1 | |
| | Calculated MW: 95 kDa | |
| | Observed MW: 120 kDa, 140 kDa, 180 kDa | |

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, rat, mouse, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain tissue, mouse cerebellum tissue, rat brain tissue, pig brain tissue

IHC: human lung cancer tissue, human tonsillitis tissue, human appendicitis tissue, Insulinoma tissue, mouse brain tissue, rat brain tissue

Background Information

Neural cell adhesion molecule 1 (NCAM1, also known as CD56) is a cell adhesion glycoprotein of the immunoglobulin (Ig) superfamily. It is a multifunction protein involved in synaptic plasticity, neurodevelopment, and neurogenesis. NCAM1 is expressed on human neurons, glial cells, skeletal muscle cells, NK cells and a subset of T cells, and the expression is observed in a wide variety of human tumors, including myeloma, myeloid leukemia, neuroendocrine tumors, Wilms' tumor, neuroblastoma, and NK/T cell lymphomas. Three major isoforms of NCAM1, with molecular masses of 120, 140, and 180 kDa, are generated by alternative splicing of mRNA (PMID: 9696812). The glycosylphosphatidylinositol (GPI)-anchored NCAM120 and the transmembrane NCAM140 and NCAM180 consist of five Ig-like domains and two fibronectin-type III repeats (FNIII). All three forms can be posttranslationally modified by addition of polysialic acid (PSA) (PMID: 14976519). Several other isoforms have also been described (PMID: 1856291).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|----------------|-------------|
| Yanping Li | 36213822 | J Oncol | IF |
| Shaolong Li | 30264546 | Cancer Sci | IHC |
| Ashley Gillon | 26385499 | Biogerontology | IF |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

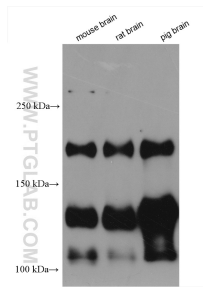
T: 4006900926

E: Proteintech-CN@ptglab.com

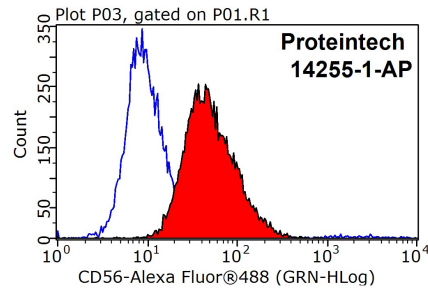
W: ptgcn.com

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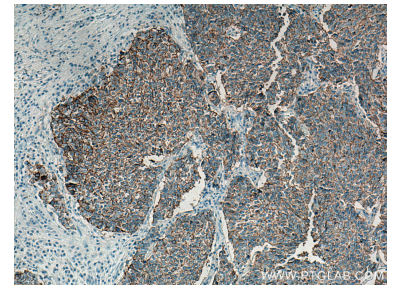
Selected Validation Data



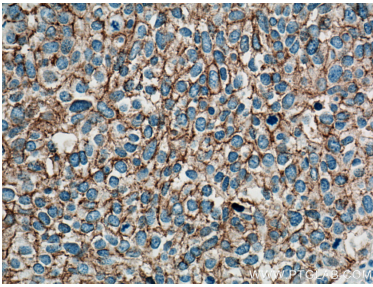
Various lysates were subjected to SDS PAGE followed by western blot with 14255-1-AP (NCAM1/CD56 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



1×10^6 SH-SY5Y cells were stained with 0.2ug NCAM1/CD56 antibody (14255-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunohistochemical analysis of paraffin-embedded human small cell lung carcinoma tissue slide using 14255-1-AP (NCAM1/CD56 antibody) at dilution of 1:16000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human small cell lung carcinoma slide using 14255-1-AP (NCAM1/CD56 antibody) at dilution of 1:16000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).