

For Research Use Only

# NCAM1/CD56 Recombinant antibody, PBS Only

Catalog Number: 82715-1-PBS

Featured Product



## Basic Information

### Catalog Number:

82715-1-PBS

### Size:

100ug, Concentration: 1 mg/ml by  
Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5528

### GenBank Accession Number:

BC047244

### GeneID (NCBI):

4684

### ENSEMBL Gene ID:

ENSG00000149294

### UNIPROT ID:

P13591

### Full Name:

neural cell adhesion molecule 1

### Calculated MW:

95 kDa

### Observed MW:

120 kDa, 140 kDa, 180 kDa

### Purification Method:

Protein A purification

### CloneNo.:

6N11

## Applications

### Tested Applications:

WB, IHC, Indirect ELISA

### Species Specificity:

human, mouse, rat, pig

## 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).

## Storage

### Storage:

Store at -80°C.

### Storage Buffer:

PBS only

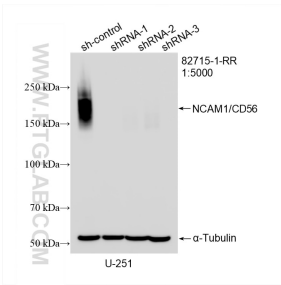
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

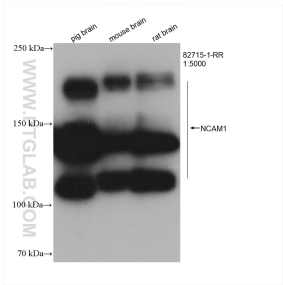
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

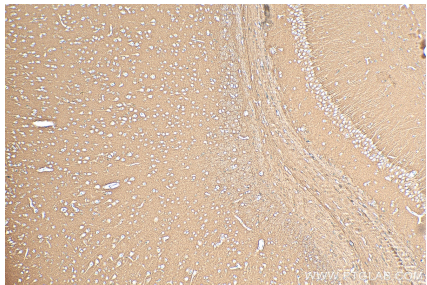
Selected Validation Data



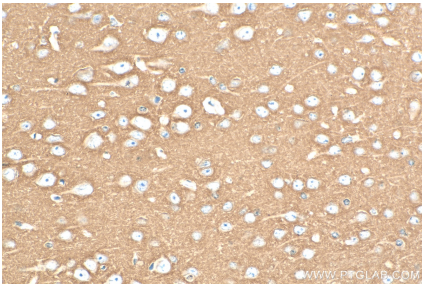
WB result of NCAM1/CD56 antibody (82715-1-RR; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NCAM1/CD56 transfected U-251 cells. This data was developed using the same antibody clone with 82715-1-PBS in a different storage buffer formulation.



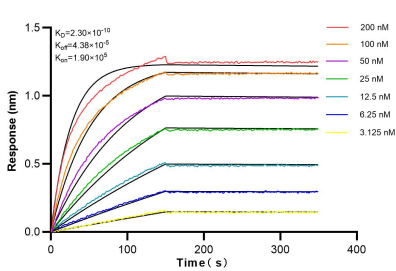
Various lysates were subjected to SDS PAGE followed by western blot with 82715-1-RR (NCAM1/CD56 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82715-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82715-1-RR (NCAM1/CD56 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82715-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82715-1-RR (NCAM1/CD56 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82715-1-PBS in a different storage buffer formulation.



Bioluminescence resonance energy transfer (BRET) kinetic assays of 82715-1-RR against Human NCAM1 were performed. The affinity constant is 0.23 nM.