

For Research Use Only

# NCAM1/CD56 Recombinant antibody

Catalog Number:82715-3-RR



## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>82715-3-RR       | <b>GenBank Accession Number:</b><br>BC047244         | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>700 µg/ml                  | <b>GeneID (NCBI):</b><br>4684                        | <b>CloneNo.:</b><br>5N5                               |
| <b>Source:</b><br>Rabbit                   | <b>ENSEMBL Gene ID:</b><br>ENSG00000149294           | <b>Recommended Dilutions:</b><br>IHC 1:1000-1:4000    |
| <b>Isotype:</b><br>IgG                     | <b>UNIPROT ID:</b><br>P13591                         |   |
| <b>Immunogen Catalog Number:</b><br>AG5528 | <b>Full Name:</b><br>neural cell adhesion molecule 1 |   |
|  | <b>Calculated MW:</b><br>95 kDa                      |   |

## Applications

|   |   |
|---|---|
| <b>Tested Applications:</b><br>IHC, ELISA | <b>Positive Controls:</b>                                       |
| <b>Species Specificity:</b><br>human      | <b>IHC:</b> human tonsillitis tissue, human colon cancer tissue |

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

## 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 -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:

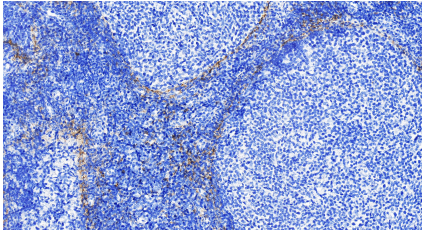
T: 4006900926

E: Proteintech-CN@ptglab.com

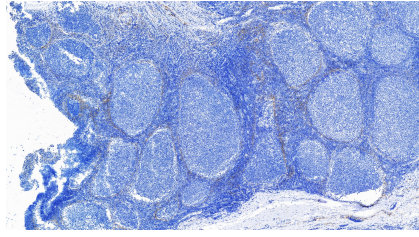
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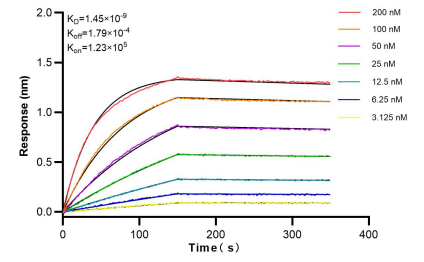
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82715-3-RR (NCAM1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82715-3-RR (NCAM1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 82715-3-RR against Human NCAM1/CD56 were performed. The affinity constant is 1.45 nM.