

For Research Use Only

# NCAM1/CD56 Recombinant monoclonal antibody, PBS Only

Catalog Number: 82715-3-PBS



## Basic Information

Catalog Number:	82715-3-PBS	GenBank Accession Number:	BC047244	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	4684	CloneNo.:	5N5
Isotype:	IgG	ENSEMBL Gene ID:	ENSG00000149294		
Immunogen Catalog Number:	AG5528	UNIPROT ID:	P13591		
		Full Name:	neural cell adhesion molecule 1		
		Calculated MW:	95 kDa		

## Applications

Tested Applications:  
IHC, IF-P, Indirect ELISA

Species Specificity:  
human

## 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

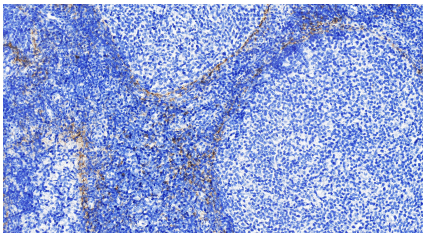
Storage:  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:  
PBS only, pH7.3

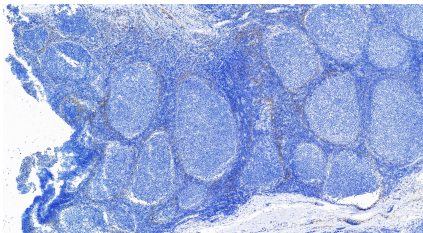
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

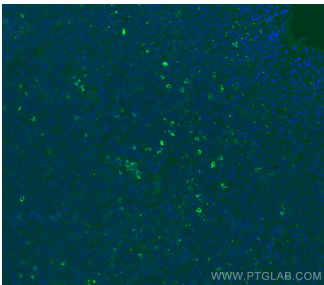
Selected Validation Data



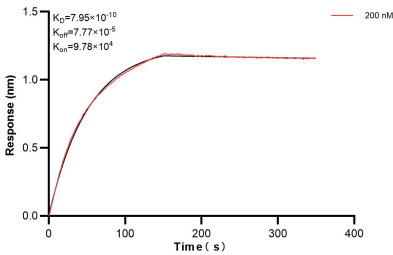
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82715-3-RR (NCAM1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82715-3-PBS in a different storage buffer formulation.



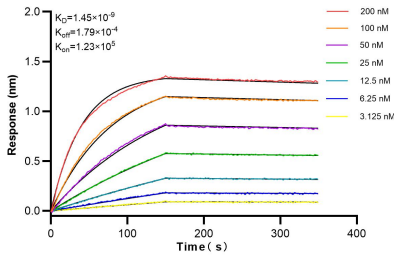
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82715-3-RR (NCAM1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82715-3-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using NCAM1/CD56 antibody (82715-3-RR, Clone: 5N5) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82715-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assay of 82715-3-PBS against Human NCAM1/CD56 was performed. The affinity constant is 0.795 nM.



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