

For Research Use Only

# Mouse NCAM1/CD56 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83883-2-PBS



## Basic Information

Catalog Number:	83883-2-PBS	GenBank Accession Number:	Purification Method:
Concentration:	1 mg/ml	GeneID (NCBI):	Protein A purification
Source:	Rabbit	17967	CloneNo.:
Isotype:	IgG	UNIPROT ID:	24093689
		P13595-1	
		Full Name:	
		neural cell adhesion molecule 1	
		Calculated MW:	
		119 kDa	
		Observed MW:	
		120 kDa, 140 kDa, 180 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
mouse, rat

## 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 the 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

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

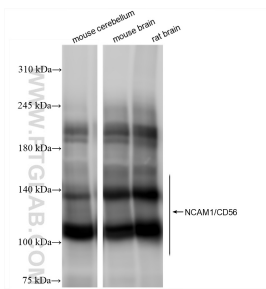
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

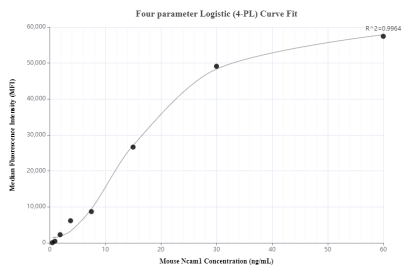
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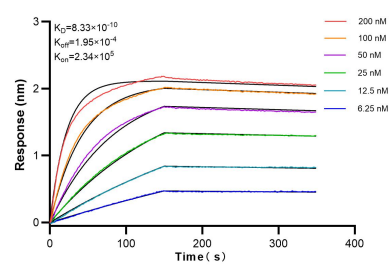
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83883-2-RR (NCAM1/CD56 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83883-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00841-1, MOUSE NCAM1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83883-2-PBS. Detection antibody: 83883-4-PBS. Standard: Eg0652. Range: 0.469-60 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 83883-2-RR against Mouse Ncam1 were performed. The affinity constant is 0.833 nM.