## For Research Use Only

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

Catalog Number:83883-2-PBS



Basic Information	Catalog Number: 83883-2-PBS Size: 100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenBank Accession Number: GeneID (NCBI): 17967 UNIPROT ID: P13595-1 Full Name: neural cell adhesion molecule 1 Calculated MW: 119 kDa Observed MW: 120 kDa, 140 kDa, 180 kDa	Purification Method: Protein A purification CloneNo.: 240936B9
Applications	Tested Applications: WB, Cytometric bead array, Indirect B Species Specificity: mouse, rat	ELISA	
Product Information	83883-2-PBS targets NCAM1/CD56 as part of a matched antibody pair: MP00841-1: 83883-2-PBS capture and 83883-4-PBS detection (validated in Cytometric bead array) Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply. This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.		
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 fibronection-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. 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<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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## Selected Validation Data





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.

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.