

For Research Use Only

# NCAM1/CD56 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83365-1-PBS



## Basic Information

<b>Catalog Number:</b> 83365-1-PBS	<b>GenBank Accession Number:</b> BC047244	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4684	<b>CloneNo.:</b> 240078B5
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000149294	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P13591	
	<b>Full Name:</b> neural cell adhesion molecule 1	
	<b>Calculated MW:</b> 95 kDa	

## Applications

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

**Species Specificity:**  
human

## Product Information

83365-1-PBS targets NCAM1/CD56 as part of a matched antibody pair:

MP00393-2: 83365-4-PBS capture and 83365-1-PBS detection (validated in Cytometric bead array)

MP00393-3: 83365-2-PBS capture and 83365-1-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 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

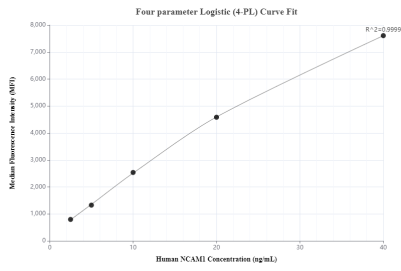
For technical support and original validation data for this product please contact:

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

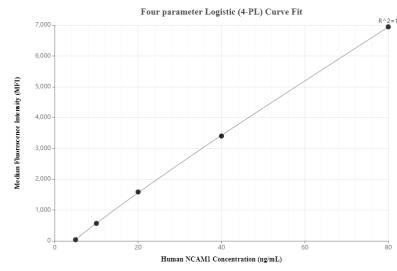
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Cytometric bead array standard curve of MP00393-2, NCAM1/CD56 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83365-4-PBS. Detection antibody: 83365-1-PBS. Standard: Eg31816. Range: 2.5-40ng/mL



Cytometric bead array standard curve of MP00393-3, NCAM1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83365-2-PBS. Detection antibody: 83365-1-PBS. Standard: Eg31816. Range: 2.5-40ng/mL