

For Research Use Only

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

Catalog Number: 83365-4-PBS



Basic Information

Catalog Number: 83365-4-PBS	GenBank Accession Number: BC047244	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4684	CloneNo.: 240078H1
Source: Rabbit	ENSEMBL Gene ID: ENSG00000149294	
Isotype: IgG	UNIPROT ID: P13591	
	Full Name: neural cell adhesion molecule 1	
	Calculated MW: 95 kDa	

Applications

Tested Applications:
Cytometric bead array, Sandwich ELISA, Indirect ELISA,
Sample test

Species Specificity:
human

Product Information

83365-4-PBS targets NCAM1/CD56 as part of a matched antibody pair:

MP00393-1: 83365-4-PBS capture and 83365-3-PBS detection (validated in Cytometric bead array)

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

MP00393-4: 83365-5-PBS capture and 83365-4-PBS detection (validated in Sandwich ELISA)

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

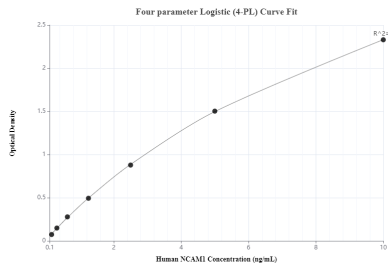
For technical support and original validation data for this product please contact:

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

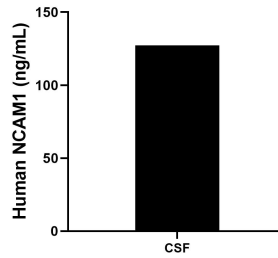
E: proteintech@ptglab.com
W: ptglab.com

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

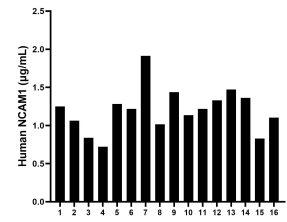
Selected Validation Data



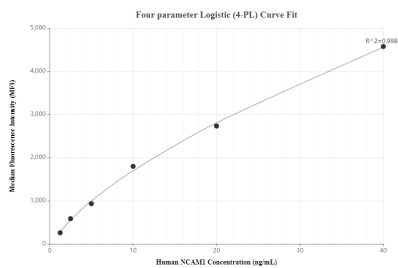
Sandwich ELISA standard curve of MP00393-4, Human NCAM1/CD56 Monoclonal Matched Antibody Pair - PBS only. 83365-5-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg31816. 83365-4-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL



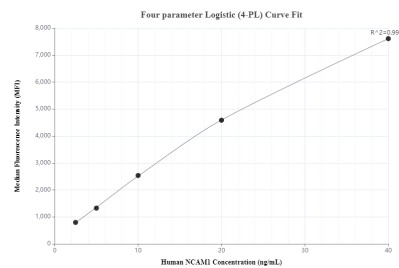
The NCAM1/CD56 concentration of Human cerebrospinal fluid (CSF) samples were determined to be 127.3 ng/mL



Serum of sixteen individual healthy human donors were measured. The NCAM1/CD56 concentration of detected samples was determined to be 1.2 ug/mL with a range of 0.7 - 1.9 ug/mL



Cytometric bead array standard curve of MP00393-1, NCAM1/CD56 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83365-4-PBS. Detection antibody: 83365-3-PBS. Standard: Eg31816 Range: 1.25-40ng/mL



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