For Research Use Only

NCAM1/CD56 Recombinant antibody

Catalog Number:83883-5-RR



Basic Information	Catalog Number: 83883-5-RR Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: EG0652	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 purfication CloneNo.: 240936B10 Recommended Dilutions: IHC 1:500-1:2000 IF/ICC 1:125-1:500
Applications	Tested Applications: IHC, IF/ICC, ELISA Species Specificity: mouse Note-IHC: suggested antigen ra TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	Alternatively, antigen	
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 *** 20ul sizes contain 0.1% BSA	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	% glycerol, pH7.3	

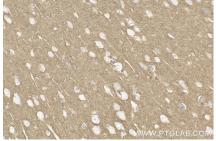
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

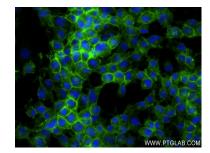
Selected Validation Data



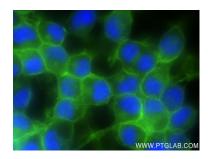
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 83883-5-RR (NCAM1/CD56 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



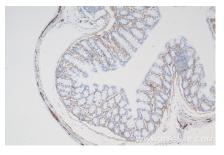
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 83883-5-RR (NCAM1/CD56 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



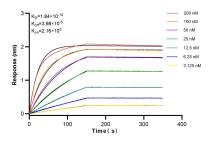
Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using Ncam1 antibody (83883-5-RR, Clone: 240936B10) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using Ncam1 antibody (83883-5-RR, Clone: 240936B10) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 83883-5-RR (NCAM1/CD56 antibody) at dilution of 1:9000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLl) kinetic assays of 83883-5-RR against Mouse Ncam1 were performed. The affinity constant is 0.184 nM.