For Research Use Only

NCAM1/CD56 Polyclonal antibody

Catalog Number:14255-1-AP Featured Product 66 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
14255-1-AP

Size:
150ul , Concentration: 700 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5528

GenBank Accession Number:
BC047244

GeneID (NCBI):
4684

ENSEMBL Gene ID:
ENSG00000149294

UNIPROT ID:
P13591

Full Name:
neural cell adhesion molecule 1

Calculated MW:
95 kDa

Observed MW:
120 kDa, 140 kDa, 180 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:2000-1:20000
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, Neuro-2a cells, rat brain tissue, pig brain tissue

IHC : human lung cancer tissue, human appendicitis tissue, human colon tissue, human tonsillitis tissue, Insulinoma tissue, mouse brain tissue, rat brain tissue

IF/ICC : SH-SY5Y cells,

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 addition of polysialic acid (PSA) (PMID: 14976519). Several other isofroms have also been described (PMID: 1856291).

Notable Publications

Author	Pubmed ID	Journal	Application
Yanping Li	36213822	J Oncol	IF
Shaolong Li	30264546	Cancer Sci	IHC
Ashley Gillon	26385499	Biogerontology	IF

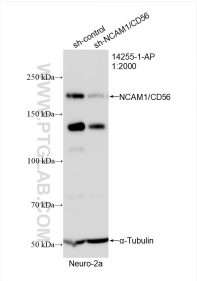
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

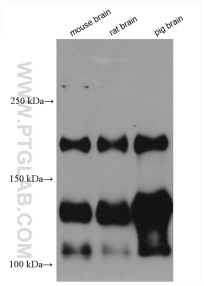
***** 20ul sizes contain 0.1% BSA**

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

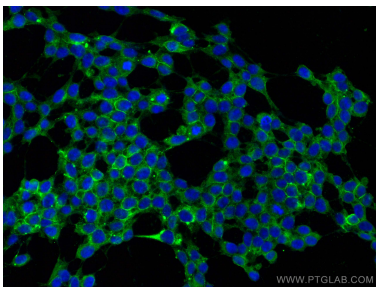
Selected Validation Data



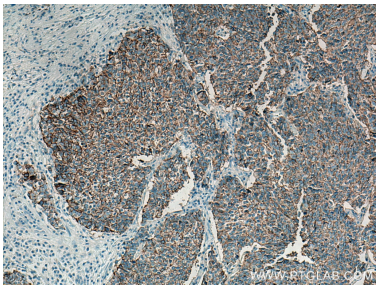
WB result of NCAM1/CD56 antibody (14255-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NCAM1/CD56 transfected Neuro-2a cells.



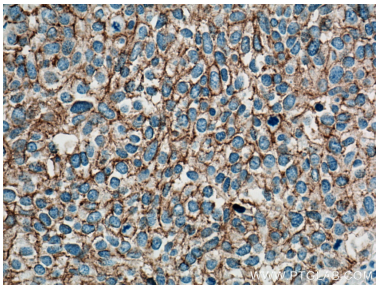
Various lysates were subjected to SDS PAGE followed by western blot with 14255-1-AP (NCAM1/CD56 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using NCAM1/CD56 antibody (14255-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human small cell lung carcinoma tissue slide using 14255-1-AP (NCAM1/CD56 antibody) at dilution of 1:16000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human small cell lung carcinoma slide using 14255-1-AP (NCAM1/CD56 antibody) at dilution of 1:16000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).