

NCAM1/CD56 Polyclonal antibody

Catalog Number: 14255-1-AP

Featured Product

49 Publications

Basic Information

Catalog Number:

14255-1-AP

Size:

700 µg/ml

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

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, rat, mouse, 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, mouse cerebellum tissue, rat brain tissue, pig brain tissue

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

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).

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

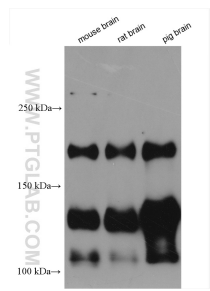
For technical support and original validation data for this product please contact:

T: 4006900926

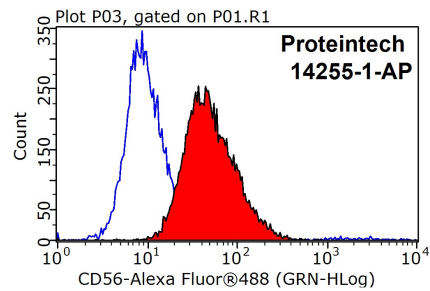
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

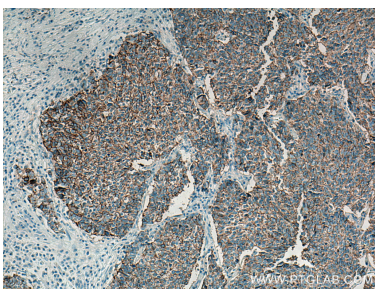
Selected Validation Data



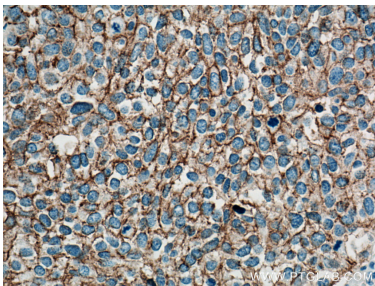
Various lysates were subjected to SDS PAGE followed by western blot with 14255-1-AP (NCAM1/CD56 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



1X10⁶ SH-SY5Y cells were stained with 0.2ug NCAM1/CD56 antibody (14255-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



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).