

NCAM1/CD56 Monoclonal antibody

Catalog Number: 60238-1-Ig

6 Publications

Basic Information

Catalog Number:

60238-1-Ig

Size:

1500 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG5732

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:

140 kDa

Purification Method:

Protein G purification

CloneNo.:

1E8C9

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:2000-1:8000

IF 1:200-1:800

Applications

Tested Applications:

IF/ICC, IF-P, IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, pig, rat

Cited Species:

human, mouse

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 : fetal human brain tissue, C6 cells, human brain tissue, pig brain tissue

IHC : human lung cancer tissue, human colon tissue

IF : SH-SY5Y cells, human colon 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
Liang Gong	34761524	Small	IHC
Yan Huang	35578896	Jpn J Clin Oncol	IHC
Xianzhi Liu	35849032	Hepatology	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

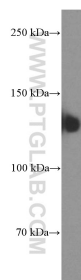
For technical support and original validation data for this product please contact:

T: 4006900926

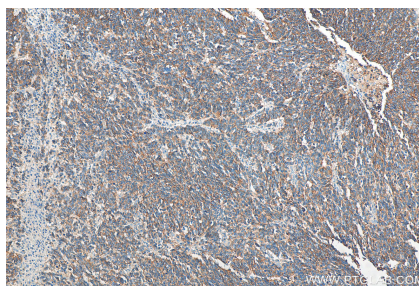
E: Proteintech-CN@ptglab.comW: ptgcn.com

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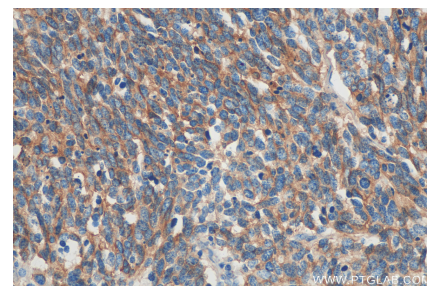
Selected Validation Data



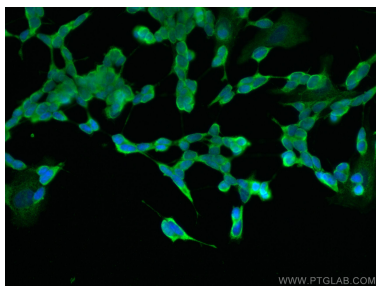
fetal human brain tissue were subjected to SDS PAGE followed by western blot with 60238-1-Ig (NCAM1/CD56 antibody at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60238-1-Ig (NCAM1/CD56 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60238-1-Ig (NCAM1/CD56 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using NCAM1/CD56 antibody (60238-1-Ig, Clone: 1E8C9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).