NCAM1/CD56 Monoclonal antibody

Catalog Number:60238-1-lg 5 Publications



Basic Information

Catalog Number: GenBank Accession Number:

60238-1-lg BC047244 GeneID (NCBI):

150ul , Concentration: 1500 $\mu g/ml$ by 4684 Nanodrop: ENSEMBL Gene ID: ENSG00000149294 Mouse UNIPROT ID: Isotype: P13591 lgG1

Full Name: Immunogen Catalog Number: neural cell adhesion molecule 1

AG5732 Calculated MW:

95 kDa Observed MW: 140 kDa

Purification Method: Protein A purification

CloneNo.:

1E8C9

Recommended Dilutions: WB 1:1000-1:8000 IHC 1:2000-1:8000 IF 1:200-1:800

Applications

Tested Applications: IF, IHC, WB, ELISA Cited Applications:

IF, IHC, WB 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 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
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.

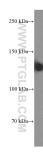
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20° C storage

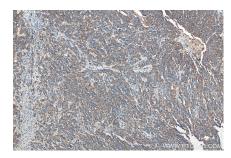
*** 20ul sizes contain 0.1% BSA

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

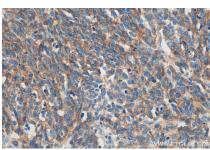
Selected Validation Data



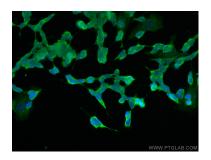
fetal human brain tissue were subjected to SDS PAGE followed by western blot with 60238-1-lg (NCAM1/CD56 antibody at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded 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 paraffinembedded 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-lg, Clone: 1E8C9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).