

NCAM1/CD56 Monoclonal antibody

Catalog Number: 60238-1-Ig 8 Publications

Basic Information

Catalog Number: 60238-1-Ig	GenBank Accession Number: BC047244	Purification Method: Protein A purification
Size: 1500 ug/ml	GeneID (NCBI): 4684	CloneNo.: 1E8C9
Source: Mouse	ENSEMBL Gene ID: ENSG00000149294	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:2000-1:8000 IF-P 1:200-1:800 IF/ICC 1:200-1:800
Isotype: IgG1	UNIPROT ID: P13591	
Immunogen Catalog Number: AG5732	Full Name: neural cell adhesion molecule 1	
	Calculated MW: 95 kDa	
	Observed MW: 140 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls: WB : fetal human brain tissue, C6 cells, human brain tissue, pig brain tissue IHC : human lung cancer tissue, human colon tissue IF-P : human colon tissue, human tonsillitis tissue IF/ICC : SH-SY5Y cells, human colon tissue
Cited Applications: WB, IHC, IF	
Species Specificity: human, rat, pig	
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	

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).

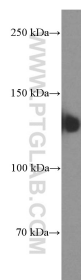
Notable Publications

Author	Pubmed ID	Journal	Application
Liang Gong	34761524	Small	IHC
Yan Huang	35578896	Jpn J Clin Oncol	IHC
Xianzhi Liu	35849032	Hepatology	IF

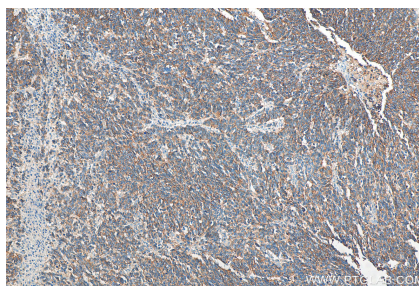
Storage

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

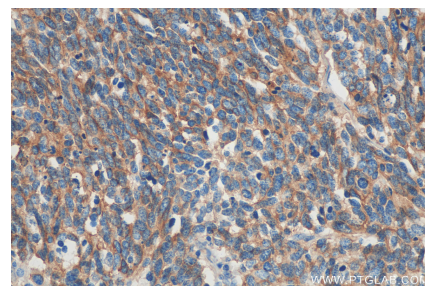
Selected Validation Data



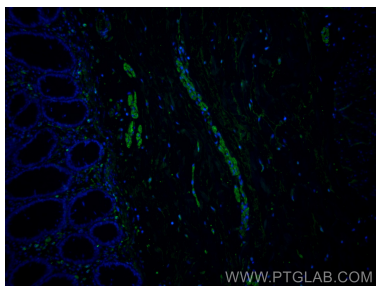
fetal human brain tissue were subjected to SDS PAGE followed by western blot with 60238-1-Ig (NCAM1/CD56 antibody at dilution of 1:4000 incubated at room temperature for 1.5 hours.



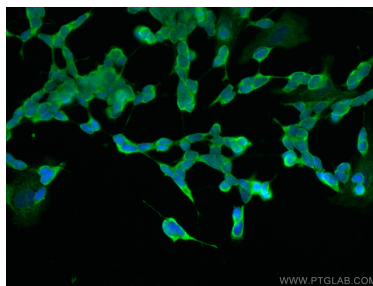
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60238-1-Ig (NCAM1/CD56 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



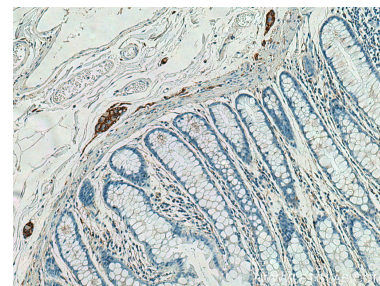
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60238-1-Ig (NCAM1/CD56 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



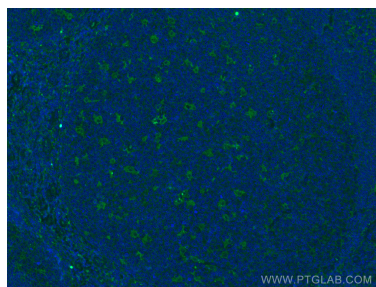
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon tissue using NCAM1/CD56 antibody (60238-1-Ig, Clone: 1E8C9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60238-1-Ig (NCAM1/CD56 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using NCAM1/CD56 antibody (60238-1-Ig, Clone: 1E8C9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).