

For Research Use Only

NCAM2 Polyclonal antibody

Catalog Number: 13850-1-AP

4 Publications



Basic Information

Catalog Number:

13850-1-AP

Size:

150ul, Concentration: 240 ug/ml by Nanodrop and 140 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4821

GenBank Accession Number:

BC052946

GeneID (NCBI):

4685

UNIPROT ID:

O15394

Full Name:

neural cell adhesion molecule 2

Calculated MW:

93 kDa

Observed MW:

100-125 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

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 : mouse brain tissue, human brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue, human gliomas tissue

Background Information

The mammalian NCAM family has two members, NCAM1 and NCAM2 (PMID: 9729879; 20439718). Neural cell adhesion molecule 2 (NCAM2, also known as NCAM21) is a single-pass type I membrane protein that is highly expressed in the brain, which may play important roles in selective fasciculation and zone-to-zone projection of the primary olfactory axons or in neurodegenerative diseases such as Alzheimer's disease (PMID: 26611261). NCAM2 has two isoforms: NCAM2.1 bearing transmembrane and cytoplasmic domains and the shorter NCAM2.2 isoform, which is GPI-anchored (PMID: 9334170; 9221781). The molecular weight of NCAM2 is around 125 kDa and 93 kDa (PMID: 9334170; 3171685).

Notable Publications

Author	Pubmed ID	Journal	Application
Jia-Qi Ma	39635132	iScience	IF
Andrew E Whiteley	38900896	Science	IHC
Enrico Amato	38488687	J Comp Neurol	

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

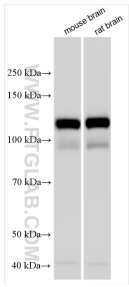
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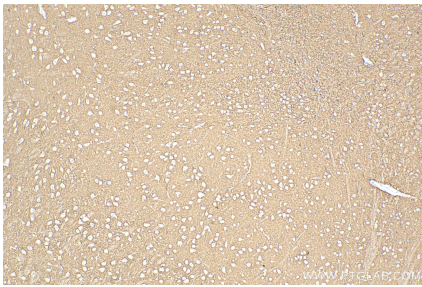
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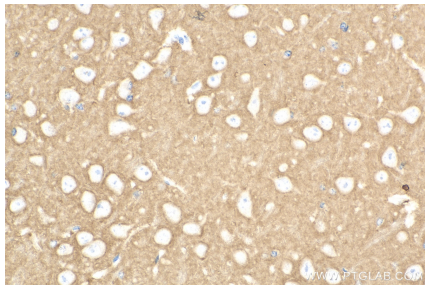
Selected Validation Data



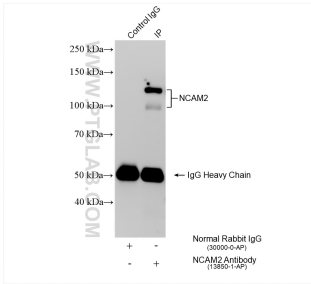
Various lysates were subjected to SDS PAGE followed by western blot with 13850-1-AP (NCAM2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13850-1-AP (NCAM2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13850-1-AP (NCAM2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NCAM2 (IP:13850-1-AP, 4ug; Detection:13850-1-AP 1:5000) with mouse brain tissue lysate 2100 ug.