

For Research Use Only

CNTN1 Polyclonal antibody

Catalog Number: 13843-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

13843-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4803

GenBank Accession Number:

BC036569

GeneID (NCBI):

1272

UNIPROT ID:

Q12860

Full Name:

contactin 1

Calculated MW:

1018 aa, 113 kDa

Observed MW:

135 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 1:200-1:800

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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, rat cerebellum tissue

IP : rat brain tissue,

IHC : mouse brain tissue,

Background Information

Contactin-1 (CNTN1), also known as Glycoprotein gp135 or Neural cell surface protein F3, is a neuronal cell adhesion molecule of the immunoglobulin superfamily (PMID: 3049624). It consists of six Ig domains, four fibronectin-like motifs, and a glycosylphosphatidylinositol (GPI)-moiety. Expressed by the central and peripheral neurons, CNTN1 contributes to the formation and function of neuronal connections. It plays a role in axon extension and formation of septate-like junctions between axons and myelinating glial cells (PMID: 23724143). In addition, acting as a ligand for Notch, CNTN1 initiates a NOTCH/DTX1 signaling pathway that promotes oligodendrocyte maturation and myelination (PMID: 14567914).

Notable Publications

Author	Pubmed ID	Journal	Application
Y Poitelon	26383514	Nat Commun	WB
Muhammad Khan	36389725	Front Immunol	IHC
Yi-An Chen	30515076	Front Mol Neurosci	IF, WB

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

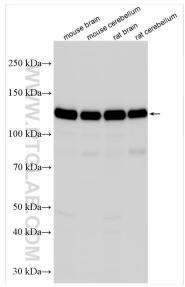
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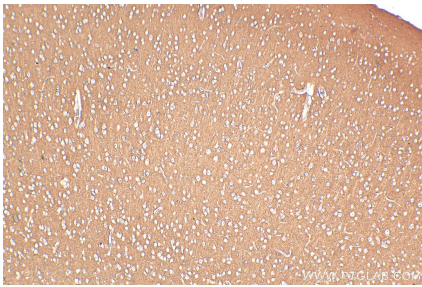
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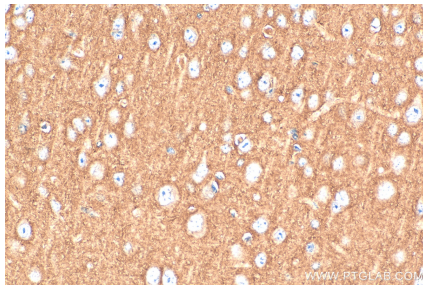
Selected Validation Data



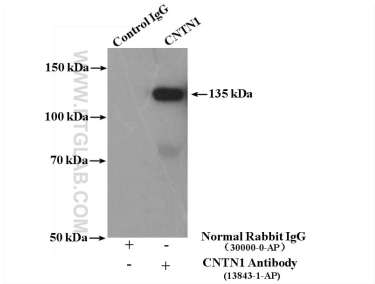
Various lysates were subjected to SDS PAGE followed by western blot with 13843-1-AP (CNTN1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13843-1-AP (CNTN1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13843-1-AP (CNTN1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CNTN1 (IP:13843-1-AP, 4ug; Detection:13843-1-AP 1:1500) with rat brain tissue lysate 4000ug.