

For Research Use Only

# CNTN1 Recombinant monoclonal antibody

Catalog Number:87612-1-RR



## Basic Information

Catalog Number:

87612-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG6555

GenBank Accession Number:

NM\_001843.3

GeneID (NCBI):

1272

UNIPROT ID:

Q12860

Full Name:

contactin 1

Calculated MW:

113 kDa

Observed MW:

135 kDa

Purification Method:

Protein A purification

CloneNo.:

252906D4

Recommended Dilutions:

WB: 1:5000-1:50000

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

## Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue, rat 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).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

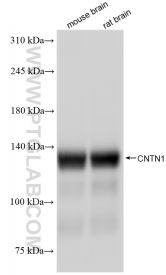
T: 4006900926

E: Proteintech-CN@ptglab.com

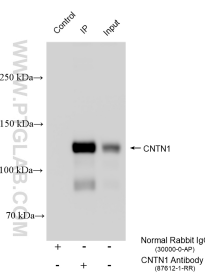
W: ptgcn.com

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

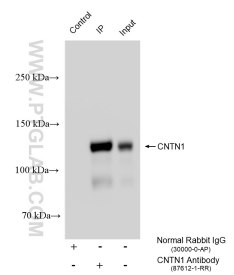
## Selected Validation Data



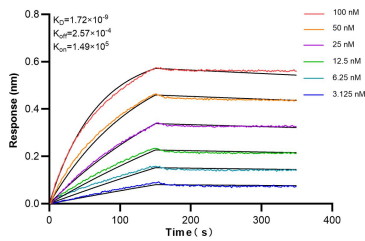
Various lysates were subjected to SDS PAGE followed by western blot with 87612-1-RR (CNTN1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-CNTN1 (IP:87612-1-RR, 4 ug; Detection: 87612-1-RR 1:5000) with mouse brain tissue lysate 1680 ug.



IP result of anti-CNTN1 (IP:87612-1-RR, 4 ug; Detection: 87612-1-RR 1:5000) with rat brain tissue lysate 1720 ug.



Biolayer interferometry (BLI) kinetic assays of 87612-1-RR against Human CNTN1 were performed. The affinity constant is 1.72 nM.