

For Research Use Only

# CASPR Polyclonal antibody

Catalog Number: 55417-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 55417-1-AP	<b>GenBank Accession Number:</b> NM_003632	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8506	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> contactin associated protein 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 156 kDa	
	<b>Observed MW:</b> 180-190 kDa	

## Applications

<b>Tested Applications:</b> FC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, IHC : human cerebellum tissue,
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CNTNAP1, also named as CASPR, NRXN4, p190, Neurexin IV and Neurexin-4, belongs to the neurexin family. It plays a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. CNTNAP1 seems to demarcate the paranodal region of the axo-glial junction. In association with contactin, CNTNAP1 may have a role in the signaling between axons and myelinating glial cells. This antibody is specific to CNTNAP1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yun-Yun Hu	37409161	Front Psychiatry	IF

## Storage

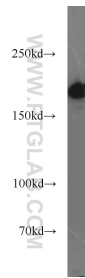
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

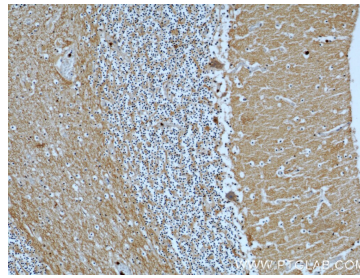
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

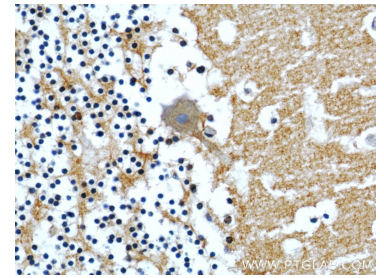
## Selected Validation Data



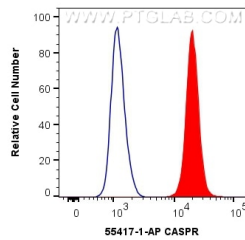
mouse brain tissue were subjected to SDS PAGE followed by western blot with 55417-1-AP (CASPR antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cerebellum using 55417-1-AP (CASPR antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human cerebellum using 55417-1-AP (CASPR antibody) at dilution of 1:50 (under 40x lens).



$1 \times 10^6$  SH-SY5Y cells were intracellularly stained with 0.4  $\mu$ g Anti-Human CASPR (55417-1-AP) and CoraLite<sup>®</sup>488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4  $\mu$ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).