

For Research Use Only

# PCP4 Polyclonal antibody

Catalog Number: 14705-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 14705-1-AP	<b>GenBank Accession Number:</b> BC013791	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5121	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> Purkinje cell protein 4	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 7 kDa	
<b>Immunogen Catalog Number:</b> AG6388	<b>Observed MW:</b> 8 kDa	

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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, rat brain

**IP :** mouse brain tissue,

**IHC :** human cerebellum tissue, mouse brain tissue, mouse cerebellum tissue

## Background Information

PCP4, also named as PEP19, belongs to a family of proteins involved in calcium transduction signals and binds calmodulin via an IQ motif, in a calcium independent manner. It is mainly expressed in ectoderm and neuroectoderm comprising neural crest derived cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rui Dong	32946775	Cancer Cell	IF
Jimena Monzón-Sandoval	32167609	Ann Neurol	WB
Heydar Davoudi	30664772	Nat Neurosci	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**

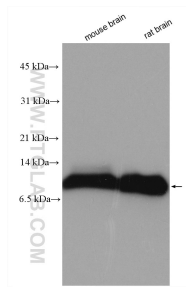
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

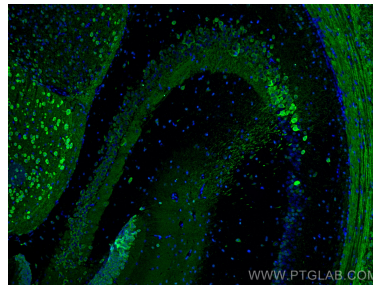
E: proteintech@ptglab.com  
W: ptglab.com

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

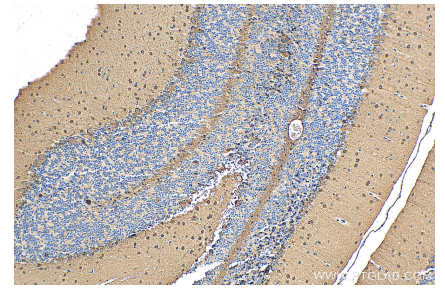
## Selected Validation Data



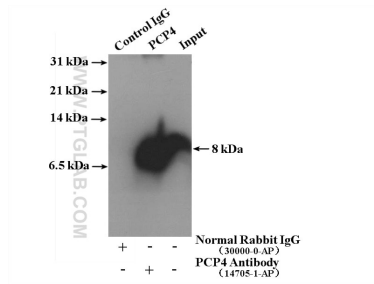
Various lysates were subjected to SDS PAGE followed by western blot with 14705-1-AP (PCP4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



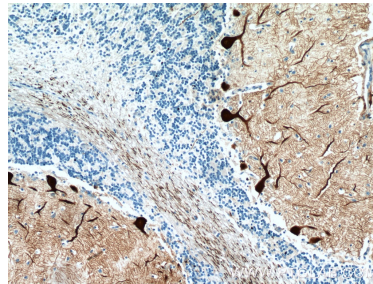
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using PCP4 antibody (14705-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



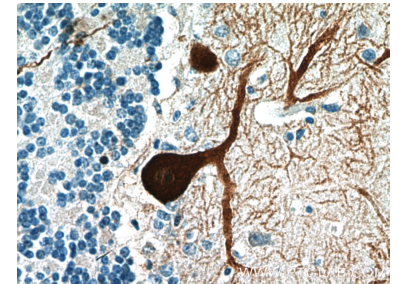
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 14705-1-AP (PCP4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



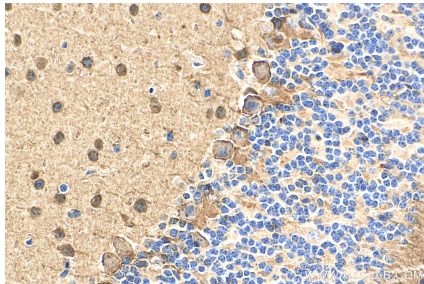
IP result of anti-PCP4 (IP:14705-1-AP, 4ug; Detection:14705-1-AP 1:1000) with mouse brain tissue lysate 4000 ug.



Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 14705-1-AP (PCP4 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 14705-1-AP (PCP4 Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 14705-1-AP (PCP4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).