For Research Use Only

# PCP4 Polyclonal antibody

Catalog Number:14705-1-AP 8 Publications

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## Basic Information

Catalog Number:
14705-1-AP

Size:
150ul , Concentration: 700 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6388

GenBank Accession Number:
BC013791

GeneID (NCBI):
5121

UNIPROT ID:
P48539

Full Name:
Purkinje cell protein 4

Calculated MW:
7 kDa

Observed MW:
8 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF-P 1:50-1:500

## Applications

Tested Applications:
WB, IP, IF, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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, rat brain

IP : mouse brain tissue,

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

IF-P : mouse brain 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

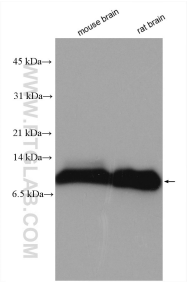
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

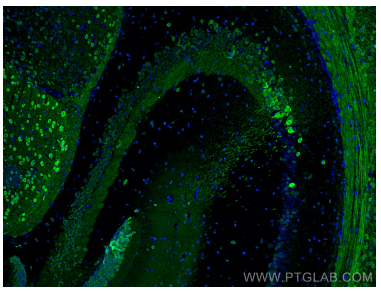
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

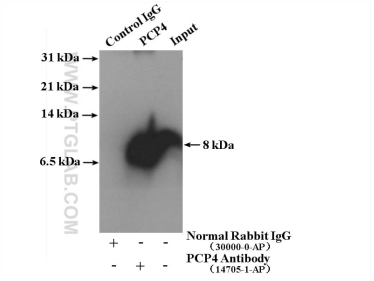
## Selected Validation Data



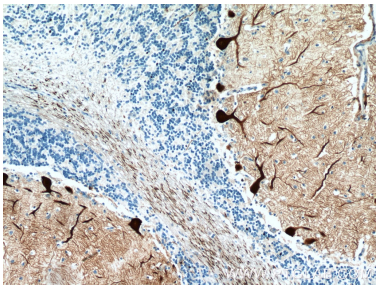

Various lysates were subjected to SDS PAGE followed by western blot with 14705-1-AP (PCP4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



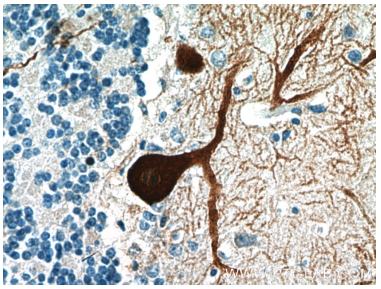

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using PCP4 antibody (14705-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



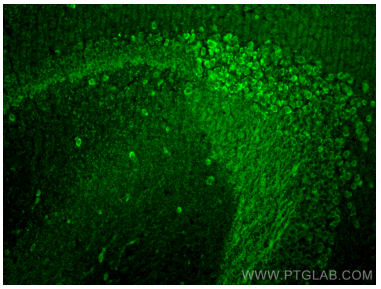

IP result of anti-PCP4 (IP:14705-1-AP, 4ug; Detection:14705-1-AP 1:1000) with mouse brain tissue lysate 4000 ug.



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).




Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded 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) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).