

For Research Use Only

# Parvalbumin Polyclonal antibody

Catalog Number: 29312-1-AP

6 Publications



## Basic Information

### Catalog Number:

29312-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG30189

### GenBank Accession Number:

NM\_002854

### GeneID (NCBI):

5816

### UNIPROT ID:

P20472

### Full Name:

parvalbumin

### Calculated MW:

12 kDa

### Observed MW:

15 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:1000-1:4000

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

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, rat brain tissue

IHC : mouse cerebellum tissue, mouse brain tissue, rat cerebellum tissue

IF-P : mouse cerebellum tissue, mouse brain tissue

## Background Information

PVALB is a high affinity calcium ion-binding protein that is structurally and functionally similar to calmodulin and troponin C. PVALB is expressed in high levels only in fast-contracting muscles and at lower levels in brain and several endocrine tissues. It is thought to be involved in muscle relaxation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Zhu Gao	39546120	Mol Neurobiol	WB
Chengyu Zhou	38855607	Transl Androl Urol	IHC
Wei-Jun Zhang	37822967	Front Mol Neurosci	WB,IHC,IF

## 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

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

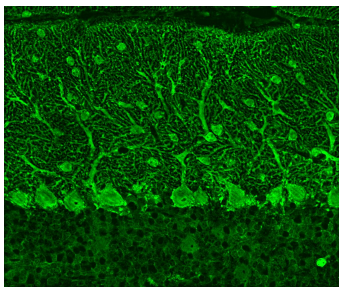
For technical support and original validation data for this product please contact:

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

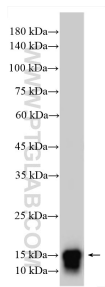
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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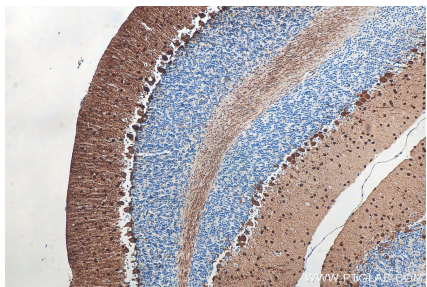
Selected Validation Data



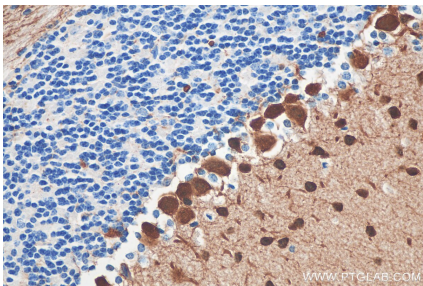
Immunofluorescent analysis of (4% PFA) fixed adult mouse cerebellum tissue using Parvalbumin antibody (29312-1-AP) at dilution of 1:1500 and Alexa Fluor 594 AffiniPure Donkey Anti-Rabbit IgG (H+L). (Image produced by Watt Lab at McGill University)



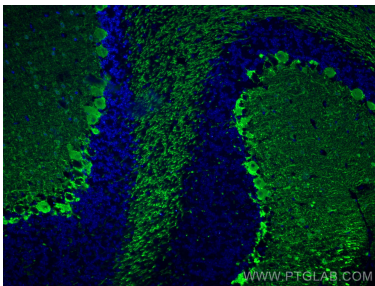
mouse brain tissue were subjected to SDS PAGE followed by western blot with 29312-1-AP (Parvalbumin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



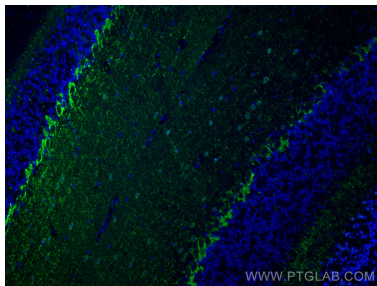
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 29312-1-AP (Parvalbumin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 29312-1-AP (Parvalbumin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using Parvalbumin antibody (29312-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using Parvalbumin antibody (29312-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).