

For Research Use Only

# GFAP Polyclonal antibody

Catalog Number: 16825-1-AP

Featured Product

657 Publications



## Basic Information

### Catalog Number:

16825-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10423

### GenBank Accession Number:

BC013596

### GeneID (NCBI):

2670

### UNIPROT ID:

P14136

### Full Name:

glial fibrillary acidic protein

### Calculated MW:

432 aa, 50 kDa

### Observed MW:

45-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:20000-1:100000

IHC: 1:2500-1:10000

IF-P: 1:50-1:500

IF-Fro: 1:500-1:2000

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IF-Fro, ELISA

### Cited Applications:

WB, IHC, IF, IHC-IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, rabbit, monkey, zebrafish, hamster, goat, duck

**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, U-251 cells, rat brain tissue

IHC: mouse brain tissue, Alzheimer mouse

IF-P: rat brain tissue, mouse brain tissue

IF-Fro: mouse brain tissue,

IF/ICC: A172 cells,

## Background Information

GFAP (Glial fibrillary acidic protein), an intermediate-filament (IF) protein, is specifically expressed in cells of astroglial lineage and is widely used to mark astroglia in the brain. It is also used as a marker for intracranial and intraspinal tumors arising from astrocytes.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi-Na Zhang	36168082	Transl Stroke Res	IF
Yihua He	34585253	J Radiat Res	IF
Shuisheng Yu	34646136	Front Pharmacol	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

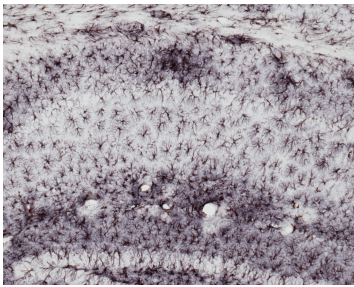
For technical support and original validation data for this product please contact:

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

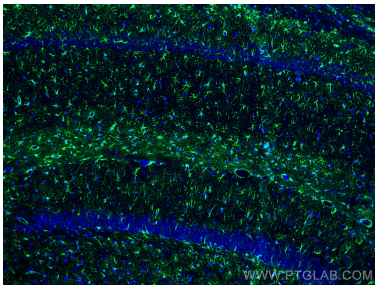
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

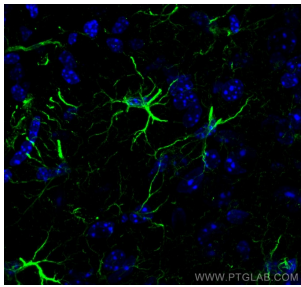
Selected Validation Data



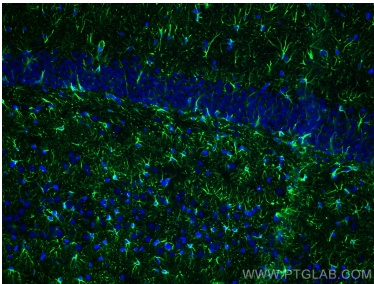
Immunohistochemical analysis of paraffin-embedded Hippocampus tissue slide from Alzheimer Mouse Model using 16825-1-AP (GFAP antibody) at dilution of 1:50000 (under 10x lens). Data from Neuroscience Associates, Inc.



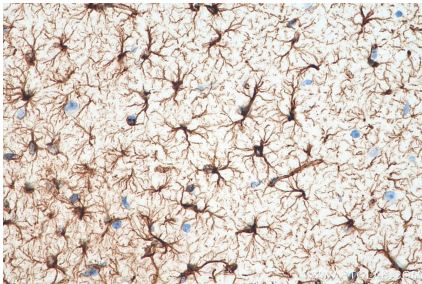
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



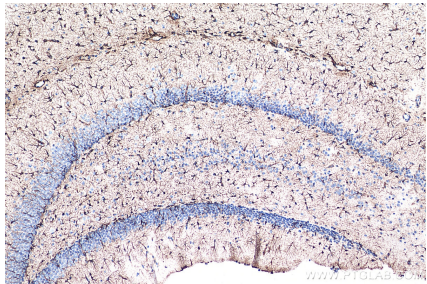
Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using 16825-1-AP (GFAP antibody) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



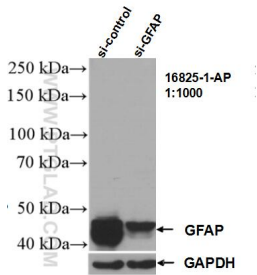
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



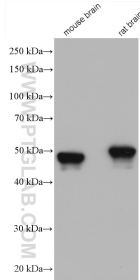
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



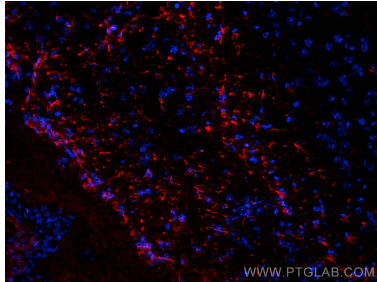
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



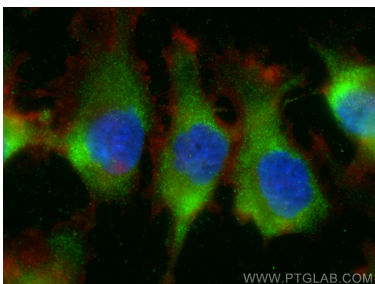
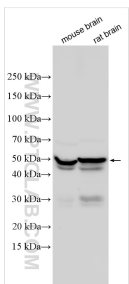
WB result of GFAP antibody (16825-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GFAP transfected U-251 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 16825-1-AP (GFAP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-4).



Various lysates were subjected to SDS PAGE followed by western blot with 16825-1-AP (GFAP antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (-20°C Ethanol) fixed A172 cells using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).