

For Research Use Only

# GFAP Polyclonal antibody

Catalog Number: 16825-1-AP

Featured Product

657 Publications



## Basic Information

Catalog Number:

16825-1-AP

Concentration:

700 ug/ml

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

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

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

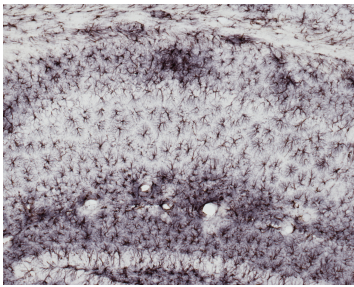
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

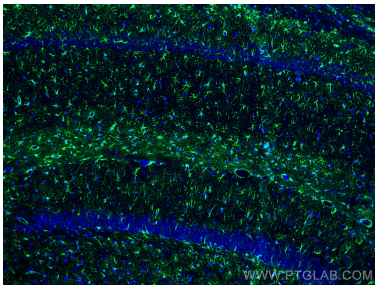
W: [ptgcn.com](http://ptgcn.com)

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

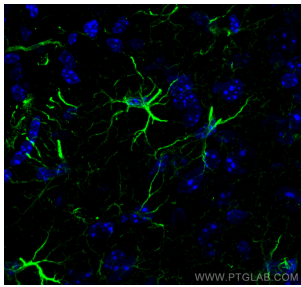
Selected Validation Data



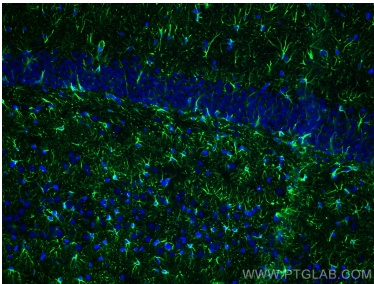
Immunohistochemical analysis of paraffin-embedded Hippocampus tissue slide from Alzheimer Mouse Model using 16825-1-AP (GFAP antibody) at dilution of 1:50000 (under 10x lens). Data from NeuroScience Associates, Inc.



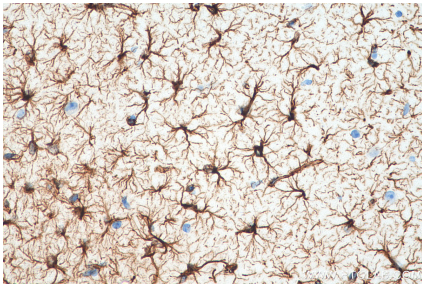
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



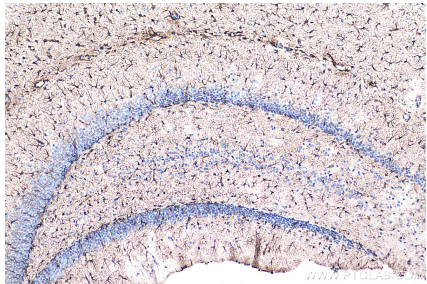
Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using 16825-1-AP (GFAP antibody) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



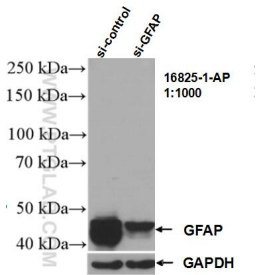
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



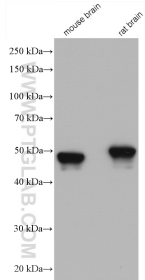
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



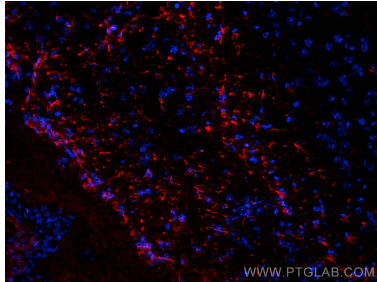
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



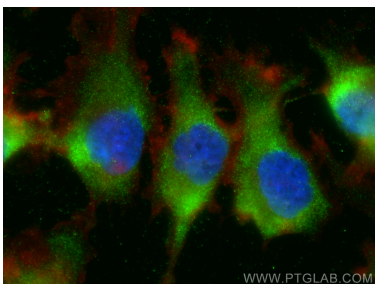
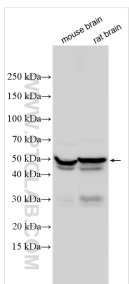
WB result of GFAP antibody (16825-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GFAP transfected U-251 cells.



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).