

For Research Use Only

GFAP Polyclonal antibody

Catalog Number: 16825-1-AP

Featured Product

451 Publications



Basic Information

Catalog Number:

16825-1-AP

Size:

700 µg/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 1:2000-1:10000

IHC 1:2500-1:10000

IF 1:50-1:500

Applications

Tested Applications:

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

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, goat, rat, mouse, zebrafish, hamster, pig, 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 : rat brain tissue, mouse brain tissue

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

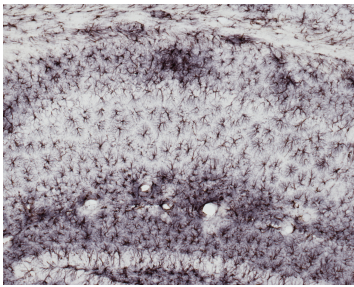
T: 4006900926

E: Proteintech-CN@ptglab.com

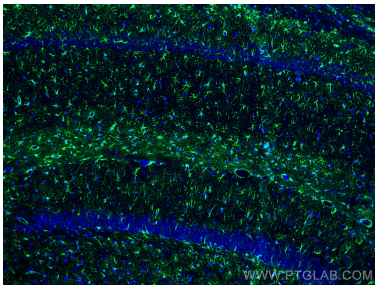
W: ptgcn.com

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

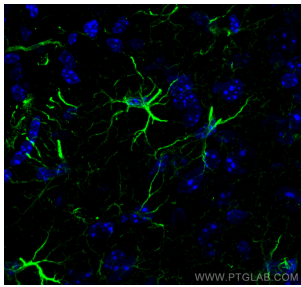
Selected Validation Data



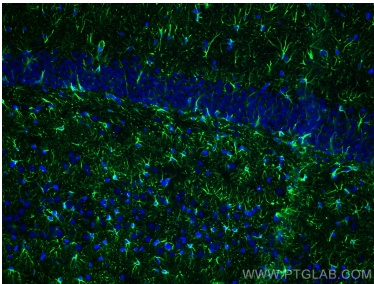
Immunohistochemical analysis of paraffin-embedded Hippocampus tissue slide from Alzheimer Mouse Model using 16825-1-AP (GFAP antibody) at dilution of 1:50000 (under 10x lens). Data from NeuroScience Associates, Inc.



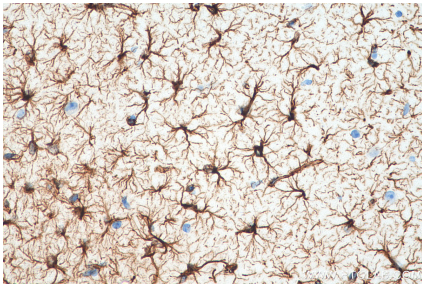
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



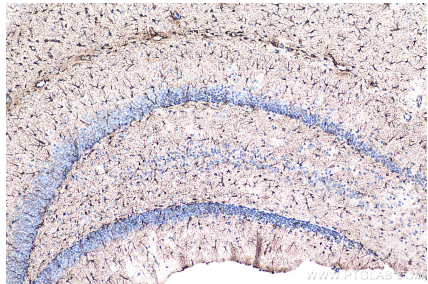
Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using 16825-1-AP (GFAP antibody) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



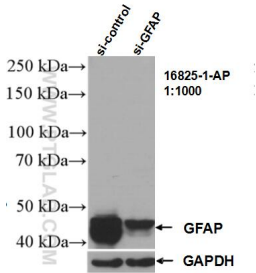
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



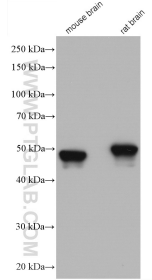
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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-GFP 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.