

For Research Use Only

GFAP Polyclonal antibody

Catalog Number: 16825-1-AP

Featured Product

624 Publications



Basic Information

| | | |
|---|--|---|
| Catalog Number: 16825-1-AP | GenBank Accession Number: BC013596 | Purification Method: Antigen affinity purification |
| Concentration: 700 ug/ml | GeneID (NCBI): 2670 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:2500-1:10000 IF-P 1:50-1:500 IF-Fro 1:500-1:2000 IF/ICC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P14136 | |
| Isotype: IgG | Full Name: glial fibrillary acidic protein | |
| Immunogen Catalog Number: AG10423 | Calculated MW: 432 aa, 50 kDa | |
| | Observed MW: 45-50 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, IF/ICC, IF-P, IF-Fro, ELISA | 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, |
| 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 | |

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:

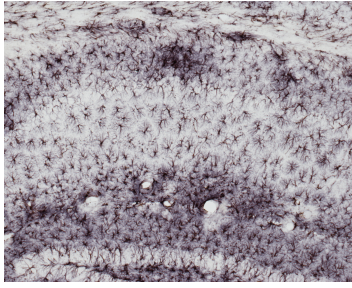
T: 4006900926

E: Proteintech-CN@ptglab.com

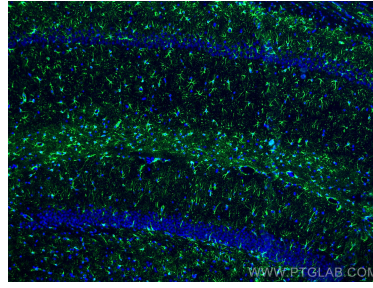
W: ptgcn.com

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

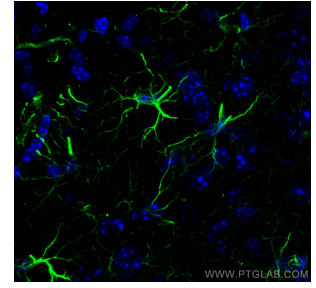
Selected Validation Data



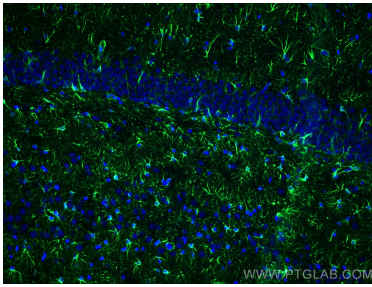
Immunohistochemical analysis of paraffin-embedded Hippocampus tissue slide from Alzheimer Mouse Model using 16825-1-AP (GFAP antibody) at dilution of 1:50000 (under 10x lens). Data from Neuroscience Associates, Inc.



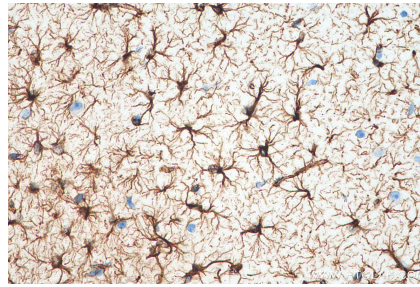
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



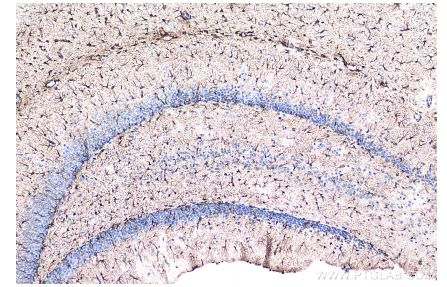
Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using 16825-1-AP (GFAP antibody) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



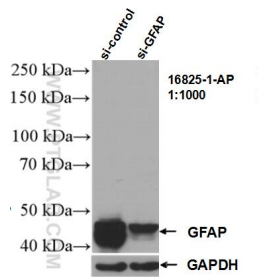
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



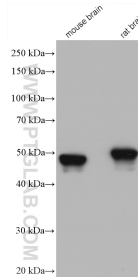
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



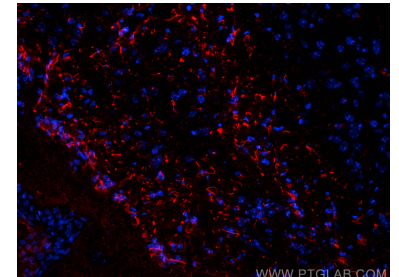
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



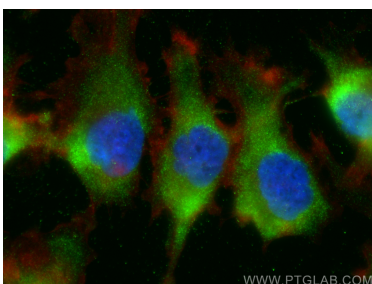
WB result of GFAP antibody (16825-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GFAP transfected U-251 cells.



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).



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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).