For Research Use Only

GFAP Polyclonal antibody

Catalog Number:16825-1-AP Featured Product 458 Publications

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Basic Information

Catalog Number:
16825-1-AP

Size:
150ul , Concentration: 700 μg/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 1:2000-1:10000
IHC 1:2500-1:10000
IF 1:50-1:500

Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IF, IHC

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

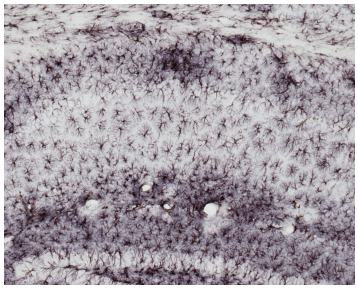
Storage

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

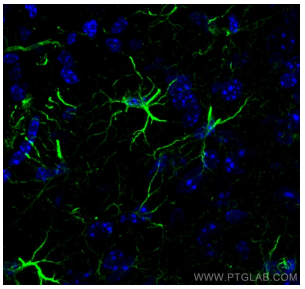
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

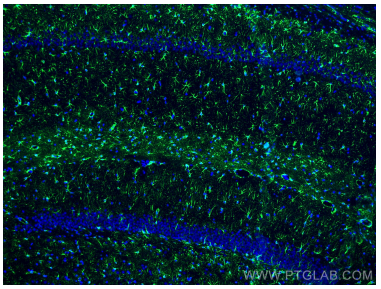
Selected Validation Data



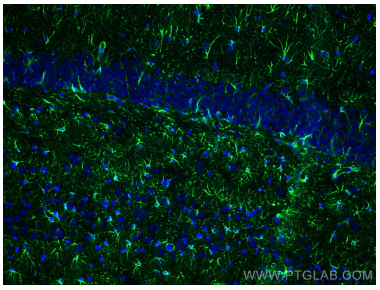
Immunohistochemical analysis of paraffin-embedded Hippocampus tissue slide from Alzheimer Mouse Model using 16825-1-AP (GFAP antibody) at dilution of 1:50000 (under 10x lens). Data from NeuroScience Associates, Inc.



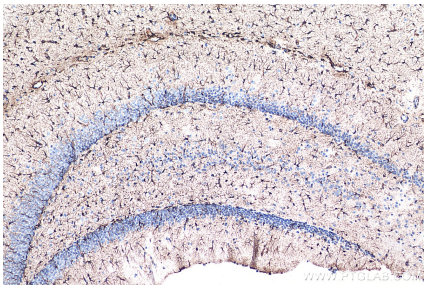
Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using 16825-1-AP (GFAP antibody) at dilution of 1:1000 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



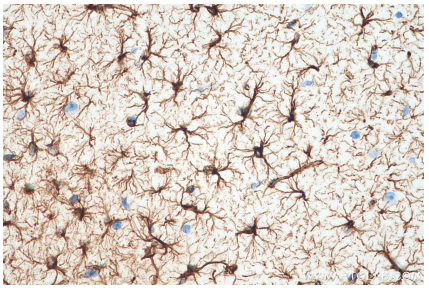
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



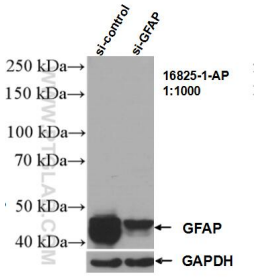
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (16825-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



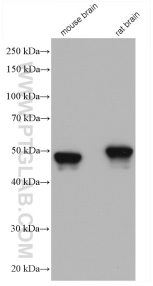
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16825-1-AP (GFAP antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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-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.