

For Research Use Only

# GFAP Polyclonal antibody

Catalog Number: 23935-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

23935-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG20853

### 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: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:800

IF-P: 1:500-1:2000

IF-Fro: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, IF-Fro, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, macaque

**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: U-251 cells, mouse brain tissue, rat brain tissue

IP: mouse brain tissue,

IHC: mouse brain tissue, human gliomas tissue

IF-P: rat brain tissue,

IF-Fro: mouse brain tissue,

## Background Information

GFAP (Glial fibrillary acidic protein) is a type III intermediate filament (IF) protein specific to the central nervous system (CNS). GFAP is one of the main components of the intermediate filament network in astrocytes and has been proposed as playing a role in cell migration, cell motility, maintaining mechanical strength, and in mitosis. GFAP is expressed in central nervous system cells, predominantly in astrocytes. GFAP is commonly used as an astrocyte marker. However, GFAP is also present in peripheral glia and in non-CNS cells, including fibroblasts, chondrocytes, lymphocytes, and liver stellate cells (PMID: 21219963).

## Notable Publications

Author	Pubmed ID	Journal	Application
Pengyi Zhou	36260151	J Mol Histol	IF, WB
Shadan S Yarandi	33137166	PLoS One	IF
Dongdong Wang	33819195	Aging (Albany NY)	WB

## 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

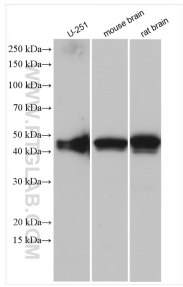
For technical support and original validation data for this product please contact:

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

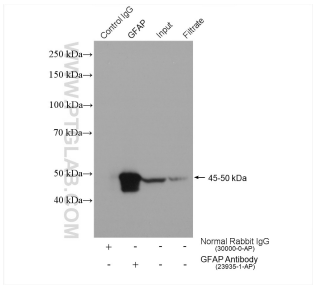
E: proteintech@ptglab.com  
W: ptglab.com

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

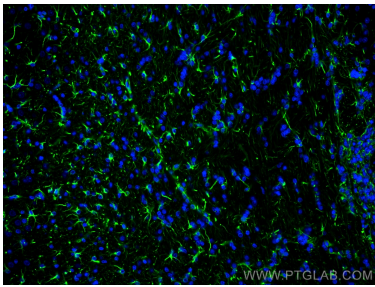
Selected Validation Data



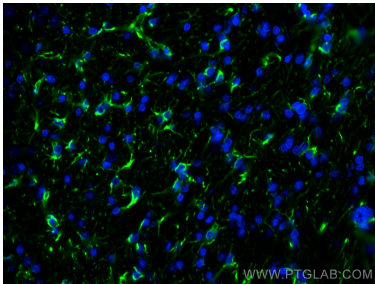
Various lysates were subjected to SDS PAGE followed by western blot with 23935-1-AP (GFAP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



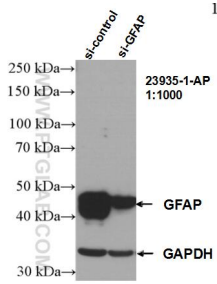
IP result of anti-GFAP (IP:23935-1-AP, 4ug; Detection:23935-1-AP 1:20000) with mouse brain tissue lysate 1280 ug.



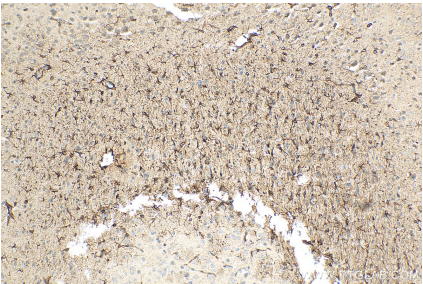
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (23935-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



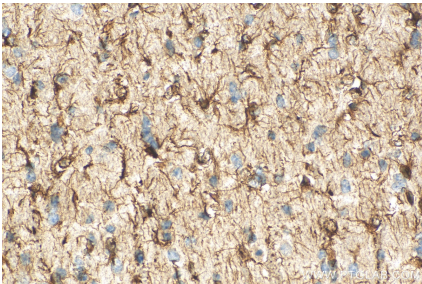
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (23935-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



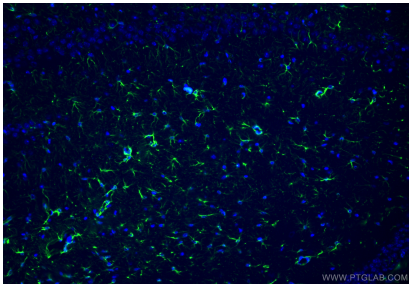
WB result of GFAP antibody (23935-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GFAP transfected U-251 cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 23935-1-AP (GFAP antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 23935-1-AP (GFAP antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using GFAP antibody (23935-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).