

For Research Use Only

# GFAP Polyclonal antibody

Catalog Number: 23935-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

23935-1-AP

**Size:**

150UL, Concentration: 407 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG20853

**GenBank Accession Number:**

BC013596

**GeneID (NCBI):**

2670

**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 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:50-1:500

## Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

IF, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, macaque, mouse

**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, C6 cells, U-251 cells

IP: mouse brain tissue,

IHC: mouse brain tissue, human gliomas tissue

IF: 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
Shadan S Yarandi	33137166	PLoS One	IF
Wei Jia	29568859	Int J Oncol	WB
Kenji Imai	29907804	Sci Rep	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

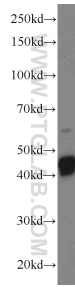
For technical support and original validation data for this product please contact:

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

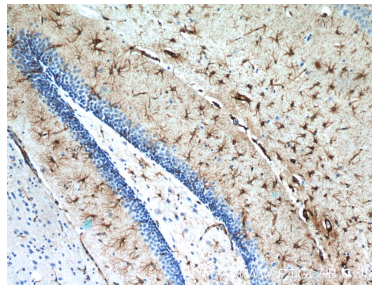
E: proteintech@ptglab.com  
W: ptglab.com

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

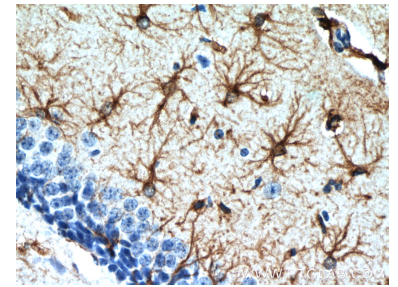
## Selected Validation Data



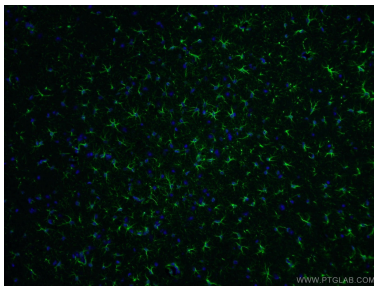
mouse brain tissue were subjected to SDS PAGE followed by western blot with 23935-1-AP (GFAP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



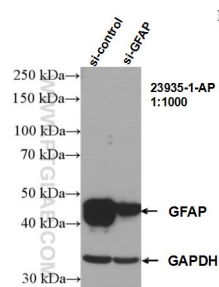
Immunohistochemical analysis of paraffin-embedded mouse brain slide using 23935-1-AP (GFAP Antibody) at dilution of 1:50.



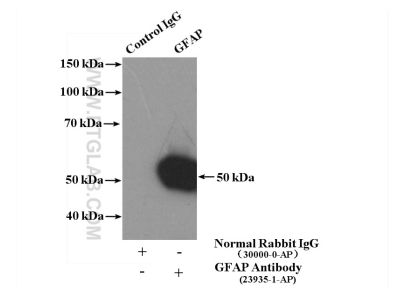
Immunohistochemical analysis of paraffin-embedded mouse brain slide using 23935-1-AP (GFAP Antibody) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 23935-1-AP (GFAP antibody) at dilution of 1:50 and Alexa Fluor 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.



IP Result of anti-GFAP (IP:23935-1-AP, 4ug; Detection:23935-1-AP 1:1000) with mouse brain tissue lysate 4000ug.