

For Research Use Only

# GFAP Monoclonal antibody

Catalog Number: 60190-1-Ig **130 Publications**



## Basic Information

<b>Catalog Number:</b> 60190-1-Ig	<b>GenBank Accession Number:</b> BC013596	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2670	<b>CloneNo.:</b> 4B2E10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P14136	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:10000 IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> glial fibrillary acidic protein	
<b>Immunogen Catalog Number:</b> AG10452	<b>Calculated MW:</b> 432 aa, 50 kDa	
	<b>Observed MW:</b> 45-52 kDa	

## Applications

**Tested Applications:**  
WB, IP, IF, IHC, ELISA

**Cited Applications:**  
WB, IF, IHC, Dot blot

**Species Specificity:**  
human, mouse, rat, pig, rabbit

**Cited Species:**  
human, rat, mouse, rabbit, pig

**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 :** rat brain tissue, human brain tissue, pig brain tissue, U-251 cells, rat cerebellum, mouse brain, mouse cerebellum, rabbit brain

**IP :** mouse brain tissue,

**IHC :** human brain tissue, human gliomas tissue, mouse brain tissue, rat brain tissue

**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 the astroglia in the brain. It is also used as a marker for intracranial and intraspinal tumors arising from astrocytes. This antibody is not recommended for immunocytofluorescent assays. It is not suitable for frozen sections.

## Notable Publications

Author	Pubmed ID	Journal	Application
Kenji Sakamoto	29110956	J Pharmacol Sci	IHC
Yingying Wang	36174863	Int J Biol Macromol	IF
Shuisheng Yu	34646136	Front Pharmacol	IF

## Storage

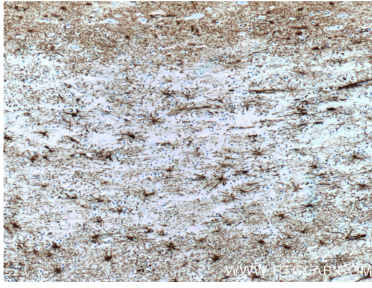
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

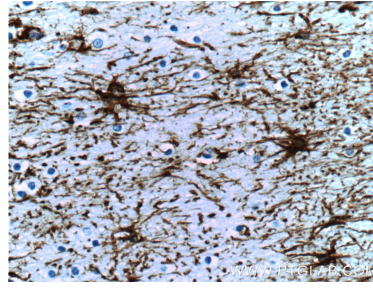
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

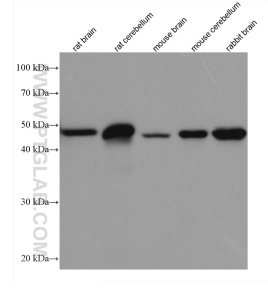
## Selected Validation Data



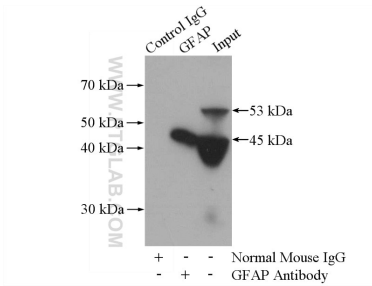
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 60190-1-Ig (GFAP Antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



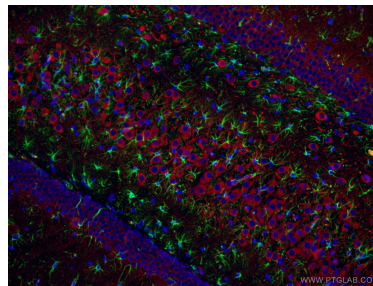
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 60190-1-Ig (GFAP Antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



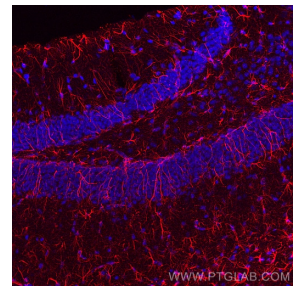
Various lysates were subjected to SDS PAGE followed by western blot with 60190-1-Ig (GFAP antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



IP result of anti-GFAP (IP:60190-1-Ig, 5ug; Detection:60190-1-Ig 1:1000) with mouse brain tissue lysate 2640ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (60190-1-Ig, Clone: 4B2E10) at dilution of 1:200 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using GFAP antibody (60190-1-Ig, Clone: 4B2E10) at dilution of 1:800 and CoraLite@594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).