For Research Use Only

GFAP Monoclonal antibody

Catalog Number:60190-1-Ig 178 Publications

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Basic Information

Catalog Number:
60190-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG10452

GenBank Accession Number:
BC013596

GeneID (NCBI):
2670

UNIPROT ID:
P14136

Full Name:
glial fibrillary acidic protein

Calculated MW:
432 aa, 50 kDa

Observed MW:
45-52 kDa

Purification Method:
Protein A purification

CloneNo.:
4B2E10

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:10000
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF, Dot blot

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

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

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-P : 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

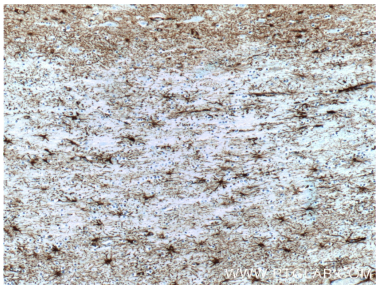
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

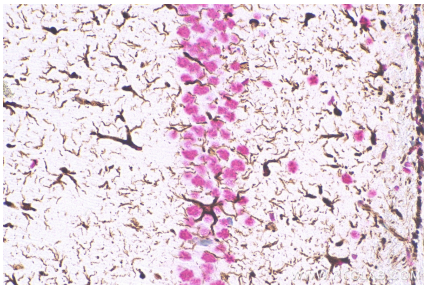
***** 20ul sizes contain 0.1% BSA**

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

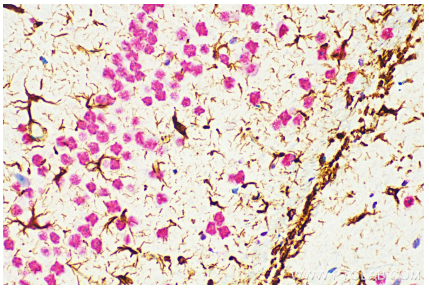
Selected Validation Data



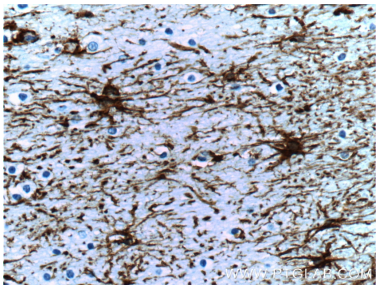
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 60190-1-Ig (GFAP Antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



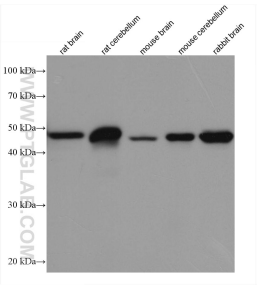
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 60190-1-Ig (GFAP antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



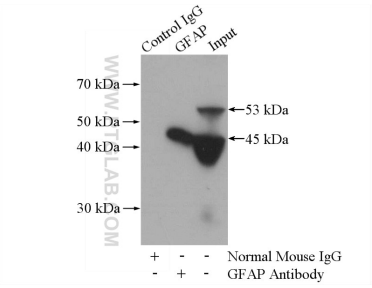
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 60190-1-Ig (GFAP antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



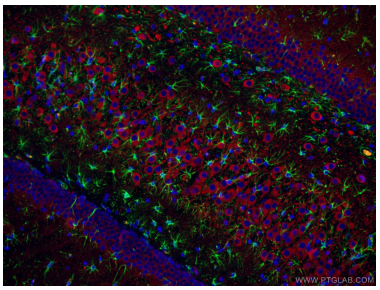
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 60190-1-Ig (GFAP Antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



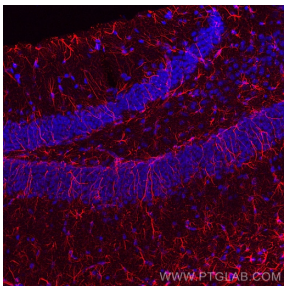
Various lysates were subjected to SDS PAGE followed by western blot with 60190-1-Ig (GFAP antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



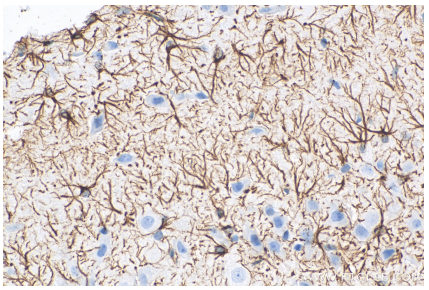
IP result of anti-GFAP (IP:60190-1-Ig, 5ug; Detection:60190-1-Ig 1:1000) with mouse brain tissue lysate 2640ug.



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).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 60190-1-Ig (GFAP antibody) at dilution of 1:20000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).