

For Research Use Only

GFAP Recombinant antibody

Catalog Number: 81063-1-RR

Featured Product



Basic Information

Catalog Number:

81063-1-RR

Size:

100ul, Concentration: 1000 ug/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:

Protein A purification

CloneNo.:

4C6

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:4950-1:19800

IF-P: 1:50-1:500

IF-Fro: 1:50-1:500

Applications

Tested Applications:

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

Species Specificity:

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

IHC: rat brain tissue,

IF-P: rat brain tissue, mouse brain tissue

IF-Fro: mouse brain tissue, rat 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.

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:

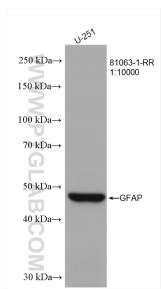
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

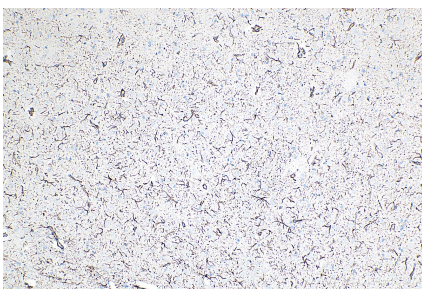
W: ptglab.com

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

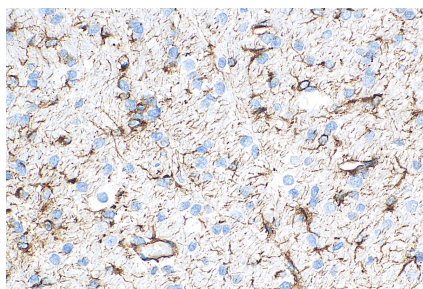
Selected Validation Data



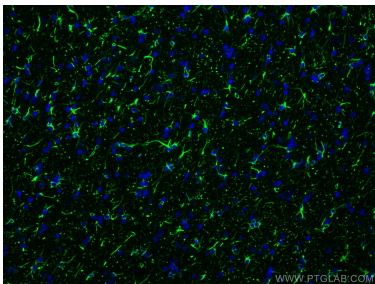
U-251 cells were subjected to SDS PAGE followed by western blot with 81063-1-RR (GFAP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



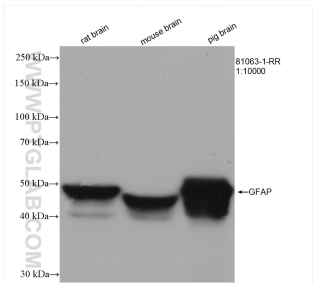
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81063-1-RR (GFAP antibody) at dilution of 1:9900 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



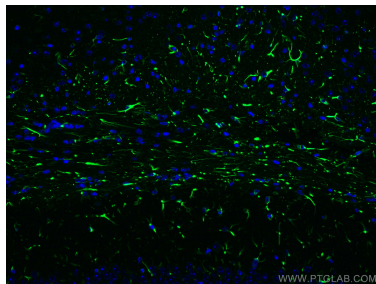
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81063-1-RR (GFAP antibody) at dilution of 1:9900 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



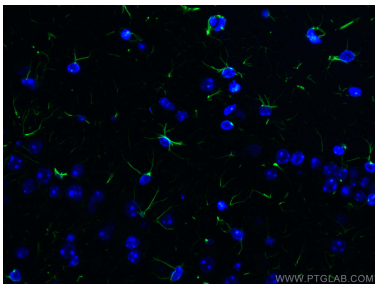
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



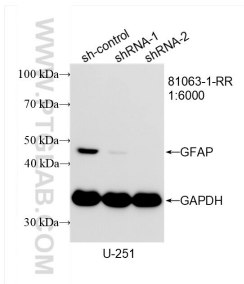
Various lysates were subjected to SDS PAGE followed by western blot with 81063-1-RR (GFAP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



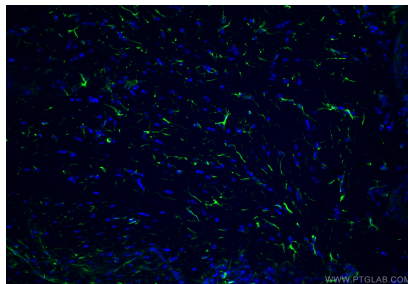
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



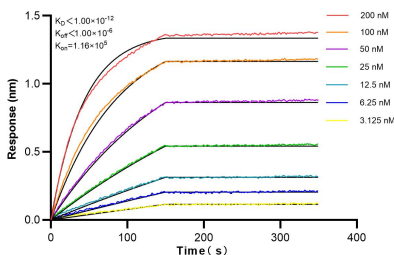
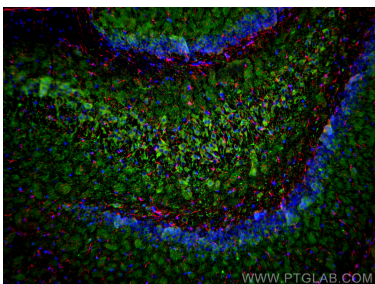
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of GFAP antibody (81063-1-RR; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GFAP transfected U-251 cells.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded rat brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), MAP2 antibody (67015-1-Ig, Clone: 1C3E6, green).

Biolayer interferometry (BLI) kinetic assays of 81077-1-RR against Human GFAP were performed. The affinity constant is below 1 pM.