

# GFAP Recombinant antibody

Catalog Number: 81063-1-RR

## Basic Information

<b>Catalog Number:</b> 81063-1-RR	<b>GenBank Accession Number:</b> BC013596	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 2670	<b>CloneNo.:</b> 4C6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P14136	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:4950-1:19800 IF-P 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> glial fibrillary acidic protein	
<b>Immunogen Catalog Number:</b> AG10423	<b>Calculated MW:</b> 432 aa, 50 kDa	

## Applications

<b>Tested Applications:</b> WB, IF-P, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, mouse, rat, pig	<b>WB :</b> U-251 cells, rat brain tissue, mouse brain tissue, pig brain tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> rat brain tissue,
	<b>IF-P :</b> rat brain tissue, mouse brain tissue

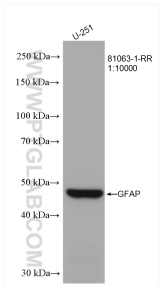
## Background Information

GFAP (Glial fibrillary acidic protein), an intermediate-filament (IF) protein, is specifically expressed in cells of astroglial lineage and is widely used to mark astroglia in the brain. It is also used as a marker for intracranial and intraspinal tumors arising from astrocytes.

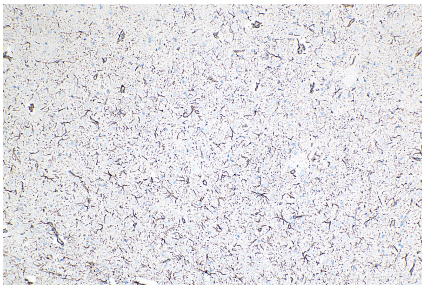
## Storage

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

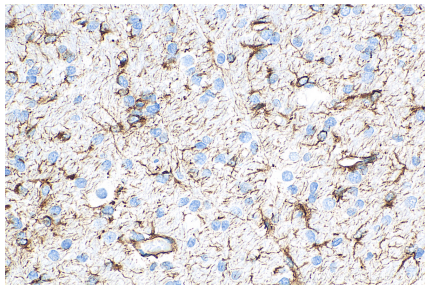
Selected Validation Data



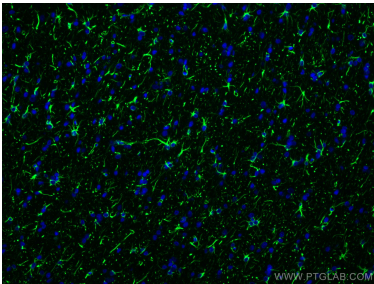
U-251 cells were subjected to SDS PAGE followed by western blot with 81063-1-RR (GFAP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



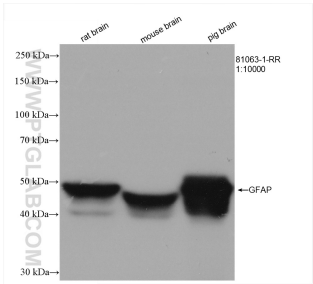
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81063-1-RR (GFAP antibody) at dilution of 1:9900 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



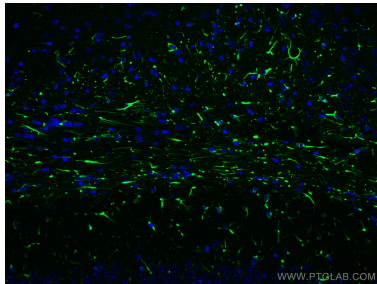
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81063-1-RR (GFAP antibody) at dilution of 1:9900 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



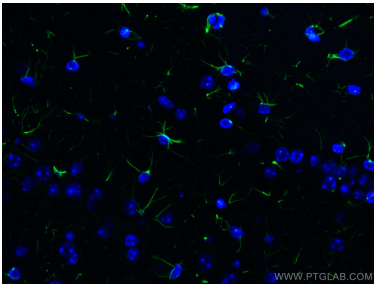
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6 ) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



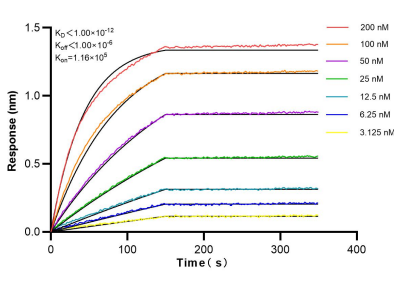
Various lysates were subjected to SDS PAGE followed by western blot with 81063-1-RR (GFAP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



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