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# GFAP Rabbit mAb

**Catalog No.: A19058** Recombinant 35 Publications

## Basic Information

**Observed MW**
50 kDa

**Calculated MW**
50 kDa

**Category**
Primary antibody

**Applications**
WB,IP,IF-F,IF-P,mIHC,ELISA

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC0206

## Background

This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:1000 - 1:2000 |
| **IP** | 0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells |
| **IF-F** | 1:200 - 1:2000 |
| **IF-P** | 1:200 - 1:2000 |
| **mIHC** | 1:200 - 1:800 |
| **ELISA** | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
2670

**Swiss Prot**
P14136

**Immunogen**
A synthetic peptide corresponding to a sequence within amino acids 1-100 of human GFAP (P14136).

**Synonyms**
ALXDRD; GFAP

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

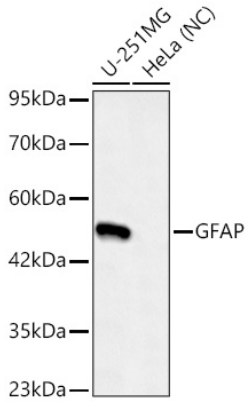
## Contact


400-999-6126

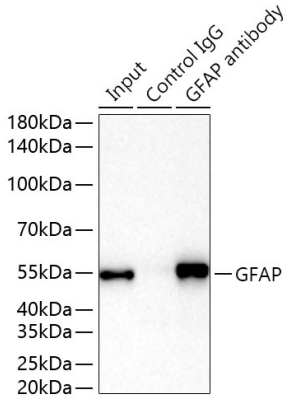
cn.market@abclonal.com.cn

www.abclonal.com.cn

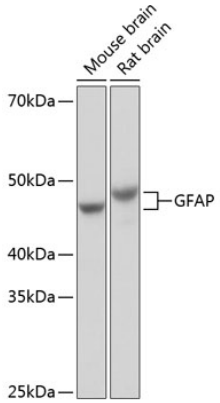
## Validation Data




Western blot analysis of various lysates using GFAP Rabbit mAb (A19058)at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): HeLa
Exposure time: 45s.

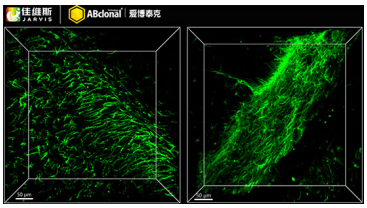



Immunoprecipitation of GFAP from 300 µg extracts of U-251 MG cells was performed using 2 µg of GFAP Rabbit mAb (A19058). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using GFAP Rabbit mAb (A19058) at a dilution of 1:2000.

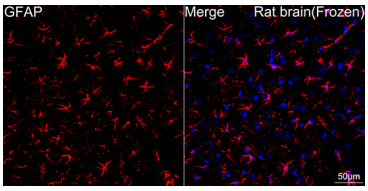



Western blot analysis of various lysates using GFAP Rabbit mAb (A19058) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

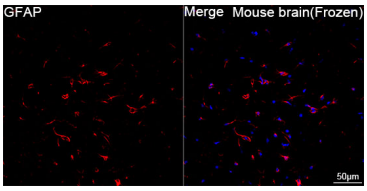
## Validation Data



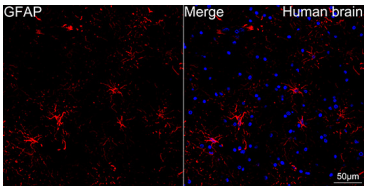
3D imaging of solvent-cleared mouse brain sections (at a thickness of 1 mm) using GFAP Rabbit mAb (A19058, diluted at a ratio of 1:200) . FDISCO JA11011 was used for sample clearing. We acknowledge Javis (Wuhan) Bio - Pharma Co., Ltd. in 3D imaging processing and kindly providing this image.



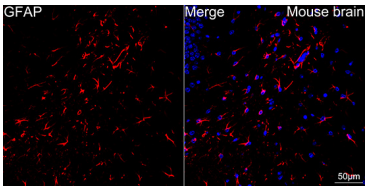

Confocal imaging of frozen sections of Rat brain tissue using GFAP Rabbit mAb (A19058, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



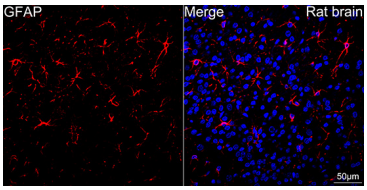

Confocal imaging of frozen sections Mouse brain tissue using GFAP Rabbit mAb (A19058, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



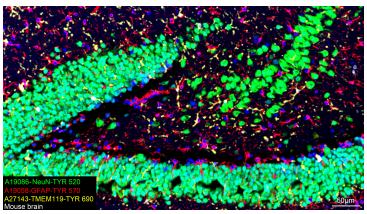

Confocal imaging of paraffin-embedded Human brain tissue using GFAP Rabbit mAb (A19058, dilution 1:1000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



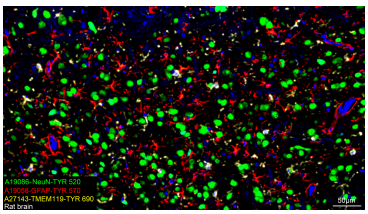

Confocal imaging of paraffin-embedded Mouse brain tissue using GFAP Rabbit mAb (A19058, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



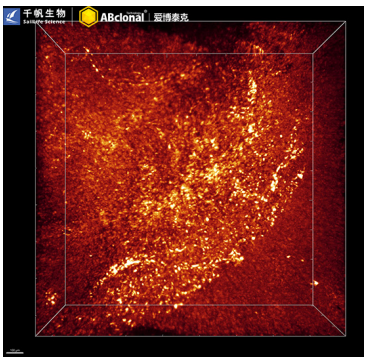

Confocal imaging of paraffin-embedded Rat brain tissue using GFAP Rabbit mAb (A19058, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



The multiplex IHC analysis on paraffin-embedded Mouse brain tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : NeuN Rabbit mAb (A19086, 1:2000) with TSA-TYR-520 (Green), GFAP



The multiplex IHC analysis on paraffin-embedded Rat brain tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : NeuN Rabbit mAb (A19086, 1:2000) with TSA-TYR-520 (Green), GFAP

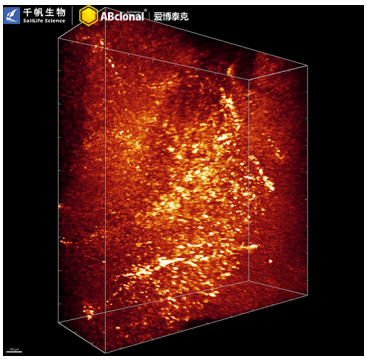


3D imaging of solvent-cleared Mouse brain tissue using GFAP Rabbit mAb (A19058, dilution 1:200). SailClear Tissue Optical Clearing Kit(QF2601) was used for sample clearing. We acknowledge SailLife(Nanjing) Sci-Tech Co., Ltd. in 3D imaging processing

## Validation Data

Rabbit mAb (A19058, 1:500) with TSA-TYR-570 (Red), and TMEM119 Rabbit mAb (A27143, 1:600) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.

Rabbit mAb (A19058, 1:500) with TSA-TYR-570 (Red), and TMEM119 Rabbit mAb (A27143, 1:600) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.




3D imaging of solvent-cleared Mouse brain tissue using GFAP Rabbit mAb (A19058, dilution 1:200). SailClear Tissue Optical Clearing Kit(QF2601) was used for sample clearing. We acknowledge SailLife(Nanjing) Sci-Tech Co., Ltd. in 3D imaging processing and kindly providing this image.

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