

Anti-GFAP Antibody (1X609)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated
Clone:	1X609
Purification:	Affinity-chromatography

Applications

1. Western Blot

- Positive WB detected in: MCF7 whole cell lysate, Mouse Brain tissue lysate, Rat Brain tissue lysate
- All lanes: GFAP antibody at 1:1000
- Secondary: Goat polyclonal to mouse IgG at 1/50000 dilution
- Predicted band size: 50 kDa
- Observed band size: 55 kDa

2. IHC image of TMAH-00487 diluted at 1:300 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.

3. IHC image of TMAH-00487 diluted at 1:300 and staining in paraffin-embedded human glioma cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.

Verified Activity:

4. Immunofluorescence staining of SH-SY5Y cell with TMAH-00487 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

5. Immunofluorescence staining of U87 cell with TMAH-00487 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

6. Overlay Peak curve showing Jurkat cells stained with TMAH-00487 (red line) at 1:50. Then 10% normal goat serum was incubated to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45 min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

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Application: ELISA,FCM,IF,IHC,WB

Recommended WB:1:1000-1:5000; IHC:1:20-1:200; IF:1:20-1:200; FCM:1:20-1:200.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human GFAP Protein

Antigen Species: Human

Gene ID: 2670

Uniprot ID: P14136

Synonyms: Glial Fibrillary Acidic Protein;GFAP

Biology Area: Neuroscience, Tags & Cell Markers, Signal transduction, Stem cells

Research Background

GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481