Product datasheet

Anti-GFAP Antibody (Clone#3F2)

Catalog Number: *M00213-8*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-GFAP Antibody (Clone#3F2)
Gene Name	GFAP
Source	Mouse
Isotype	IgG1
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human GFAP recombinant protein (Position: Q93-M432). Human GFAP shares 94% amino acid (aa) sequence identity with both mouse and rat GFAP.
concentration	500 ug/ml
Purification	protein G purified.
Observed MW	50KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Glial fibrillary acidic protein (GFAP) is a protein that is encoded by the GFAP gene in humans. It is an intermediate filament(IF) protein that is expressed by numerous cell types of the central nervous system (CNS) including astrocytes, and ependymal cells. It is mapped to 17q21.31. GFAP is closely related to its non-epithelial family members, vimentin, desmin, and peripherin, which are all involved in the structure and function of the cell’s cytoskeleton. GFAP is thought to help to maintain astrocyte mechanical strength, as well as the shape of cells. This gene has been shown to play a role in mitosis by adjusting the filament network present in the cell. GFAP is necessary for many critical roles in the CNS. What’s more, GFAP also plays a role in astrocyte-neuron interactions as well as cell-cell communication.

Selected Validation Data

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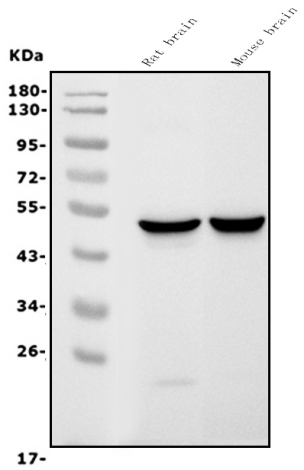

Figure 1. Western blot analysis of anti- GFAP antibody (M00213-8). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: Rat brain tissue lysates,
Lane 2: mouse brain tissue lysates.Use rabbit anti- GFAP 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for GFAP at approximately 50KD. The expected band size for GFAP is at 50KD.

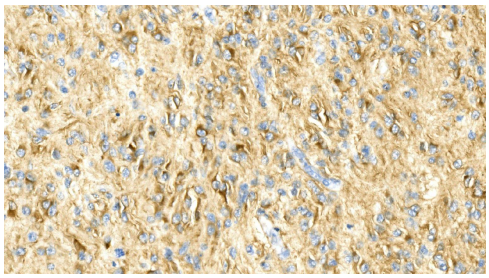

Figure 2.IHC analysis using anti- GFAP antibody (M00213-8).detected in paraffin-embedded section of human glioma tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

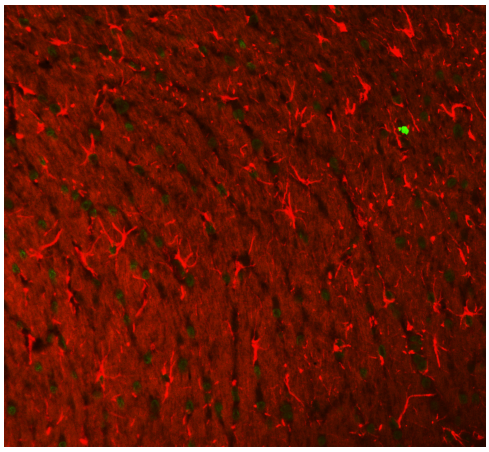

Figure 4. IF analysis of Histone H3, GFAP using anti- GFAP antibody（M00213-8）, anti- Histone antibody（A12477-2）,detected in paraffin-embedded section of rat brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5μg/mL mouse anti-GFAP, DyLight488 Conjugated goat anti-rabbit IgG (BA1127), rabbit anti-MBP Antibody , Cy3 Conjugated goat anti-mouse IgG (BA1031) overnight at 4°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.