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GFAP (GA5) Mouse mAb (Alexa Fluor® 594 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-F, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P14136	Entrez-Gene Id: 2670
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Product Usage Information

Application

Immunofluorescence (Frozen)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:50
1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

GFAP (GA5) Mouse mAb (Alexa Fluor® 594 Conjugate) detects endogenous levels of total GFAP protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with native GFAP purified from pig spinal cord.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 594 fluorescent dye and tested in-house for direct immunofluorescent analysis in rat cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated GFAP (GA5) Mouse mAb #3670.

Background

The cytoskeleton consists of three types of cytosolic fibers: microfilaments (actin filaments), intermediate filaments, and microtubules. Major types of intermediate filaments are specifically expressed in particular cell types: cytokeratins in epithelial cells, glial fibrillary acidic protein (GFAP) in glial cells, desmin in skeletal, visceral, and certain vascular smooth muscle cells, vimentin in cells of mesenchymal origin, and neurofilaments in neurons. GFAP and vimentin form intermediate filaments in astroglial cells and modulate their motility and shape (1). In particular, vimentin filaments are present at early developmental stages, while GFAP filaments are characteristic of differentiated and mature brain astrocytes. Thus, GFAP is commonly used as a marker for intracranial and intraspinal tumors arising from astrocytes (2). In addition, GFAP intermediate filaments are also present in nonmyelin-forming Schwann cells in the peripheral nervous system (3).

Background References

- Eng, L.F. et al. (2000) *Neurochem. Res.* 25, 1439-51.
- Goebel, H.H. et al. (1987) *Acta. Histochem. Suppl.* 34, 81-93.
- Jessen, K.R. et al. (1990) *Development* 109, 91-103.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-F: Immunofluorescence (Frozen) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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