

#3657
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GFAP (GA5) Mouse mAb (Alexa Fluor® 647 Conjugate)


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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® 647 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. The antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct immunofluorescence of rat cells. The unconjugated antibody #3670 reacts with human, mouse and rat GFAP protein. CST expects that GFAP (GA5) Mouse mAb (Alexa Fluor® 647 Conjugate) will also recognize GFAP in these species.	
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	1. Eng, L.F. et al. (2000) <i>Neurochem. Res.</i> 25, 1439-51. 2. Goebel, H.H. et al. (1987) <i>Acta. Histochem. Suppl.</i> 34, 81-93. 3. Jessen, K.R. et al. (1990) <i>Development</i> 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 Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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