657

\_

## GFAP (GA5) Mouse mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



Orders:877-616-CELL (2355)<br/>orders@cellsignal.comSupport:877-678-TECH (8324)Web:info@cellsignal.com<br/>cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: IF-F, FC-FP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1 kappa	<b>UniProt ID:</b> #P14136	Entrez-Gene Id: 2670
Product Usage Information		<b>Application</b> Immunofluorescence (Frozen) Flow Cytometry (Fixed/Permeabilized)		<b>Dilution</b> 1:50 - 1:100 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 $^{ extsf{B}}$ 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 <sup>®</sup> 647 under optimal conditions with an F/P ratio of 2-6.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 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 <sup>®</sup> 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			
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.			
		transfer of this product conducted by the buyer, must not (1) use this pro purposes; (b) testing, an per-test basis; or (c) mar this product or its comp purchasing a license to t Technologies Corporatio	is conditioned on the buye excluding contract researc oduct or its components fo- alysis or screening service nufacturing or quality assu onents for resale, whether this product for purposes con, 5791 Van Allen Way, Car	r using the purchas ch or any fee for ser r (a) diagnostic, the s, or information in rance or quality cor or not resold for us other than as descrii rlsbad, CA 92008 US	return for compensation on a htrol, and/or (2) sell or transfer te in research. For information on
		more information.			

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.