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GFAP (GA5) Mouse mAb



Orders: 877-616-CELL (2355)

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Applications: WB, IHC-P, IF-F, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Mouse IgG1	UniProt ID: #P14136	Entrez-Gene Id: 2670		
Product Usage Information	А	Application			Dilution			
	W	Western Blotting			1:1000			
	In	Immunohistochemistry (Paraffin)			1:50 - 1:200			
	In	nmunofluorescence (Frozen)		1:400) - 1:800		
	In	nmunofluorescence (Immunocytochen	nistry)	1:400	0 - 1:800		
	FI	ow Cytometry (Fixed	/Permeabilized)	1:400 - 1:1600				
Storage	Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol at 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.							
	Fo	For a carrier-free (BSA and azide free) version of this product see product #56522.						
Specificity / Sensitivity		GFAP (GA5) Mouse mAb detects endogenous levels of total GFAP protein.						
Source / Purificati	i on Mo	noclonal antibody is	produced by imm	nunizing animals with na	tive GFAP purified fro	m pig spinal cord.		
Background	fila cel ske ne the wh col GF	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 Refe	2. (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).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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1/1/24, 8:21 AM **Limited Uses**

GFAP (GA5) Mouse mAb (#3670) Datasheet Without Images Cell Signaling Technology

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