

Mouse monoclonal antibody to Glial Fibrillary Acidic protein (GFAP) [GA-8]: IgG

Catalogue No.:	M-981-100
Description:	GFAP is a 50 kDa intra-cytoplasmic filamentous protein of the cytoskeleton in astrocytes. During the development of the central nervous system, it is a cell-specific marker that distinguishes astrocytes from other glial cells. GFAP immunoreactivity has been shown in immature oligodendrocytes, epiglottic cartilage, pituicytes, papillary meningiomas, myoepithelial cells of the breast and in non-CNS: Schwann cells, salivary gland neoplasms, enteric glia cells, and metastasizing renal carcinomas. At least 3 isoforms are produced from alternate splicing. These isoforms differ in the C-terminal region which is encoded by alternative exons. This antibody detects all three isoforms.
Batch No.:	See product label
Unit size:	100 ug
Antigen:	GFAP from pig spinal cord
Clone:	GA-8
Other Names:	Astrocyte; Glial fibrillary acidic protein;
Accession:	P14136 GFAP_HUMAN; Q8WP16 Q8WP16_PIG
Produced in:	Mouse
Purity:	IgG
Applications:	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 0.5-1.0 ug/mL is recommended for WB. Human GFAP has a predicted length of 432 residues and MW of 50 kDa. A concentration of 0.5-1.0 ug/mL is recommended to detect GFAP in formalin fixed and paraffin embedded tissues as well as formalin/acetone fixed tissues. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
Cross-reactivity:	Human; mouse; rat;
Form:	Lyophilized from 1.2% sodium acetate, 2mg BSA, 0.01mg Na ₃
Reconstitution:	Reconstitute in 1 mL of PBS (pH 7.4) to achieve an antibody concentration of 100 ug/mL. Centrifuge to remove any insoluble material.
Storage:	At least 12 months after purchase at 2-8C (lyophilized formulations). After reconstitution, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase.
References:	<ol style="list-style-type: none">1. Reeves S.A, et al. Proc. Natl. Acad. Sci. U.S.A. 86:5178-5182(1989).2. Brenner M, et al. Brain Res. Mol. Brain Res. 7:277-286(1990).2. Isaacs A, et al. Genomics 51:152-154(1998).3. Ota T, et al. Nat. Genet. 36:40-45(2004).4. Nielsen A.L, et al. J. Biol. Chem. 277:29983-29991(2002).5. Singh R, et al. Genomics 82:185-193(2003).

FOR RESEARCH USE ONLY

Mouse monoclonal antibody to Glial Fibrillary Acidic protein (GFAP) [GA-8]: IgG

6. Brenner M, et al. Nat. Genet. 27:117-120(2001).
7. Brockmann K, et al. Eur. Neurol. 50:100-105(2003).
8. Stumpf E, et al. Arch. Neurol. 60:1307-1312(2003).
9. Sawaishi Y, et al. Neurology 58:1541-1543(2002).
10. Aoki Y, et al. Neurosci. Lett. 312:71-74(2001).

biosensis

FOR RESEARCH USE ONLY