

## Rabbit polyclonal antibody to human Glial Fibrillary Acidic Protein (341-356): Affinity purified

<b>Catalogue No.:</b>	R-1145-100
<b>Description:</b>	Glial Fibrillary Acidic Protein (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.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 ug
<b>Antigen:</b>	A synthetic peptide (EMARHLQEYQDLLNVK) corresponding to a region (341-356) from human Glial Fibrillary Acidic Protein. To enhance the immunological response, this peptide was coupled to carrier protein BSA.
<b>Other Names:</b>	Astrocyte; Glial fibrillary acidic protein; GFAP;
<b>Accession:</b>	P14136 GFAP_HUMAN;
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Affinity purified on antigen column
<b>Applications:</b>	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 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 2.0 ug/mL is recommended to detect GFAP in formalin fixed and paraffin embedded tissues. Heat mediated antigen retrieval is required. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
<b>Cross-reactivity:</b>	Human; rat; predicted to react with mouse due to sequence homology;
<b>Form:</b>	Lyophilized from 1.2% sodium acetate, 2mg BSA, 0.2mg NaN3
<b>Reconstitution:</b>	Reconstitute in 1 mL of PBS (pH 7.4) to achieve an antibody concentration of 100 ug/mL. Centrifuge to remove any insoluble material.
<b>Storage:</b>	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.
<b>Expiry Date:</b>	12 months after purchase.
<b>References:</b>	<ol style="list-style-type: none"><li>1. Reeves S.A, et al. Proc. Natl. Acad. Sci. U.S.A. 86:5178-5182(1989).</li><li>2. Brenner M, et al. Brain Res. Mol. Brain Res. 7:277-286(1990).</li><li>2. Isaacs A, et al. Genomics 51:152-154(1998).</li><li>3. Ota T, et al. Nat. Genet. 36:40-45(2004).</li><li>4. Nielsen A.L, et al. J. Biol. Chem. 277:29983-29991(2002).</li><li>5. Singh R, et al. Genomics 82:185-193(2003).</li></ol>

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10. Aoki Y, et al. Neurosci. Lett. 312:71-74(2001).

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