

Product datasheet for AM08204PU-N

GFAP Mouse Monoclonal Antibody [Clone ID: SB61b]

Product data:

Product Type: Primary Antibodies Clone Name: SB61b IHC, WB **Applications:** Recommended Dilution: Western Blot: 2 µg/ml Predicted Mol. Weight: 50 kDa. Immunohistochemistry (FS or Methanol fixed cells): 5 µg/ml. **Reactivity:** Human Host: Mouse lgG2b Isotype: Monoclonal **Clonality:** Immunogen: Recombinant human Glial Fibrillary Acid Protein (GFAP). Specificity: This antibody reacts with human GFAP (~ 50 kDa). Formulation: 100 mM Borate buffered saline, pH 8.2 without preservatives. State: Purified State: Liquid purified lg fraction. **Concentration:** lot specific **Conjugation:** Unconjugated Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. Gene Name: glial fibrillary acidic protein Database Link: Entrez Gene 2670 Human P14136



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| Background: | Glial Fibrillary Acid Protein (GFAP) was discovered by Bignami et al. (Ref.1) as a major fibrous protein of multiple sclerosis plaques. It was subsequently found to be a member of the 10 nm or intermediate filament protein family, specifically the intermediate filament protein family Class III, which also includes peripherin, desmin and vimentin. GFAP is heavily, and specifically, expressed in astrocytes and certain other astroglia in the central nervous system in satellite cells in peripheral ganglia, and in non-myelinating Schwann cells in peripheral nerves. (Ref.2) Many types of brain tumors, presumably of astrocytic origin, heavily express GFAP. In addition, neural stem cells frequently strongly express GFAP. It is also found in the lens epithelium, Kupffer cells of the liver, in some cells of salivary tumors, and has been reported in erythrocytes. Therefore, antibodies to GFAP are very useful as markers of astrocytic cells and neural stem cells, and for distinguishing neoplasms of astrocytic origin from other neoplasms in the central nervous system. Although its function is not fully understood, GFAP protein is probably involved in controlling the shape and movement of astrocytes. The protein may also play a significant role in the interactions of astrocytes with other cells, which are required for the formation and maintenance of the myelin layer that covers nerve cells. Additionally, GFAP may assist in maintaining the protective blood-brain barrier. In adults, GFAP levels increase as a result of the proliferation of astrocytes that occurs in response to a variety of physical, chemical and etiological insults, including Alzheimer's disease was recently shown to be caused by point mutations in the protein-coding region of the GFAP gene. (Ref.3) All forms of Alexander's disease are characterized by the presence of Rosenthal fibers, which are GFAP-containing cytoplasmic inclusions found in astrocytes. |
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| Synonyms: | Glial Fibrillary Acidic Protein |

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