

Glial fibrillary acidic protein Recombinant Protein | GFAP recombinant protein

Recombinant Mouse Glial fibrillary acidic protein (Gfap)

CATALOG # AAA18409	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
------------------------------	---

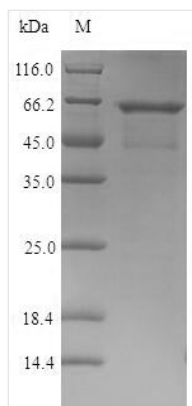
PRODUCT SYNONYMS

Glial fibrillary acidic protein; Recombinant Mouse Glial fibrillary acidic protein (Gfap); GFAP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-430aa; Full Length Protein
Sequence	MERRRITSAR RSYASETVVR GLGPSRQLGT MPRFSLSRMT PPLPARVDFS LAGALNAGFK ETRASERAEM MELNDRFASY IEKVRFLEQQ NKALAAELNQ LRAKEPTKLA DVYQAE LREL RLRLDQLTAN SARLEVERDN FAQDLGTLRQ KLQDETNLRL EAENNLAAYR QEADATLAR VDLERKVESL EEEIQFLRKI YEEEVRELRE QLAQQQVHVE MDVAKPDLTA ALREIRTQYE AVATSNMQET EEWYRSKFAD LTDAASRNAE LLRQAKHEAN DYRRQLQALT CDLES LRGTN ESLERQMREQ EERHARESAS YQEALARLEE EGQSLKEEMA RHLQEYQDLL NVKLALDIEI ATYRKLEGE ENRITIPVQT FSNLQIRETS LDTKSVSEGH LKRNIVVKTV EMRDGEVIKD SKQEHKDVVM
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for GFAP recombinant protein	GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.
---	---

References	Structure of the mouse glial fibrillary acidic protein gene implications for the evolution of the intermediate filament multigene family. Balcarek J.M., Cowan N.J. <i>Nucleic Acids Res.</i> 13:5527-5543(1985) Lineage-specific biology revealed by a finished genome assembly of the mouse. Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S., Teague B., Potamouisis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K., Eichler E.E., Ponting C.P. <i>PLoS Biol.</i> 7:E1000112-E1000112(2009) Sheng J., Wu X., Lin F., Yang X., Deng J. Identification of two N-terminal non-alpha-helical domain motifs important in the assembly of glial fibrillary acidic protein. Ralton J.E., Lu X., Hutcheson A.M., Quinlan R.A.J. <i>Cell Sci.</i> 107:1935-1948(1994) Sequence of a cDNA clone encoding mouse glial fibrillary acidic protein structural conservation of intermediate filaments. Lewis S.A., Balcarek J.M., Krek V., Shelanski M., Cowan N.J. <i>Proc. Natl. Acad. Sci. U.S.A.</i> 81:2743-2746(1984) Structural implications of a cDNA clone encoding mouse glial fibrillary acidic protein. Cowan N.J., Lewis S.A., Balcarek J.M., Krek V., Shelanski M.L. <i>Ann. N. Y. Acad. Sci.</i> 455:575-582(1985) Characterization of human cDNA and genomic clones for glial fibrillary acidic protein. Brenner M., Lampel K., Nakatani Y., Mill J., Banner C., Mearow K., Dohadwala M., Lipsky R., Freese E. <i>Brain Res. Mol. Brain Res.</i> 7:277-286(1990) High-throughput sequence identification of gene coding variants within alcohol-related QTLs. Ehringer M.A., Thompson J., Conroy O., Xu Y., Yang F., Canniff J., Beeson M., Gordon L., Bennett B., Johnson T.E., Sikela J.M. <i>Mamm. Genome</i> 12:657-663(2001) Novel metastatic mouse tumor cells express multiple properties of macrophages. Huysentruyt L.C., Banerjee D., Seyfried T.N. Lubec G., Klug S., Kang S.U. Lubec G., Sunyer B., Chen W.-Q. Submitted (JAN-2009) to UniProtKB Genetic polymorphism and sequence evolution of an alternatively spliced exon of the glial fibrillary acidic protein gene, GFAP. Singh R., Nielsen A.L., Johansen M.G., Jorgensen A.L. <i>Genomics</i> 82:185-193(2003) A new splice variant of glial fibrillary acidic protein GFAPepsilon, interacts with the presenilin proteins. Nielsen A.L., Holm I.E., Johansen M., Bonven B., Jorgensen P., Jorgensen A.L.J. <i>Biol. Chem.</i> 277:29983-29991(2002) Comprehensive identification of phosphorylation sites in postsynaptic density preparations. Trinidad J.C., Specht C.G., Thalhammer A., Schoepfer R., Burlingame A.L. <i>Mol. Cell. Proteomics</i> 5:914-922(2006) Synemin is expressed in reactive astrocytes in neurotrauma and interacts differentially with vimentin and GFAP intermediate filament networks. Jing R., Wilhelmsson U., Goodwill W., Li L., Pan Y., Pekny M., Skalli O.J. <i>Cell Sci.</i> 120:1267-1277(2007)
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	196115327
NCBI GeneID	14580
NCBI Accession #	NP_001124492.1
NCBI GenBank Nucleotide #	NM_001131020.1
UniProt Accession #	P03995; Q09J71; Q3USS4; Q496R4; Q496S3; Q7TQ30; Q80VX6; Q925K2; Q925K3; A1E2H7; A2AH87; B2RTI7
Molecular Weight	51.9 kDa
NCBI Official Full Name	glial fibrillary acidic protein isoform 1
NCBI Official Synonym Full Names	glial fibrillary acidic protein
NCBI Official Symbol	Gfap
NCBI Official Synonym Symbols	A1836096
UniProt Protein Name	Glial fibrillary acidic protein
UniProt Gene Name	Gfap
UniProt Synonym Gene Names	GFAP
UniProt Entry Name	GFAP_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.