

Recombinant Full Length Human glial fibrillary acidic Protein, His-tagged

Cat. No. GFAP-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is identical to the human GFAP isotype I sequence in GenBank entry NP_002046.1. It is widely used as a standard in ELISA and other antibody based assays.
Species	Human
Source	E.coli
ProteinLength	1-432 aa
Description	This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Tag	Non
Molecular Mass	50 kDa by SDS-PAGE plus about 5 kDa tag sequence
Applications	Protein standard for ELISA, MSD, Luminex and Simoa assays, immunogen for antibody production
Storage	Stable at 4 centigrade for several months. For longer term store at -20 centigrade or

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	lower.
Storage Buffer	6M Urea, 10mM phosphate pH=7.5
Concentration	1 mg/mL
References	1. Bignami A, Eng LF, Dahl D, Uyeda CT. Localization of the glial fibrillary acidic protein in astrocytes by immunofluorescence. Brain Res. 43:429-35 (1972). 2. Brenner M, et al. Mutations in GFAP, encoding glial fibrillary acidic protein, are associated with Alexander disease. Nat Genet 27:117-20 (2001). 3. Silver J. Miller JH. Regeneration beyond the glial scar. Nat. Rev. Neurosci. 5:146-56 (2004). 4. Schiff L1, Hadker N, Weiser S, Rausch C. A literature review of the feasibility of glial fibrillary acidic protein as a biomarker for stroke and traumatic brain injury. Mol. Diagn. Ther. 16:79-92 (2012).

GENE INFORMATION

Gene Name	GFAP glial fibrillary acidic protein [Homo sapiens (human)]
Official Symbol	GFAP
Synonyms	GFAP; glial fibrillary acidic protein; FLJ45472; intermediate filament protein; FLJ42474
Gene ID	2670
mRNA Refseq	NM_002055
Protein Refseq	NP_002046

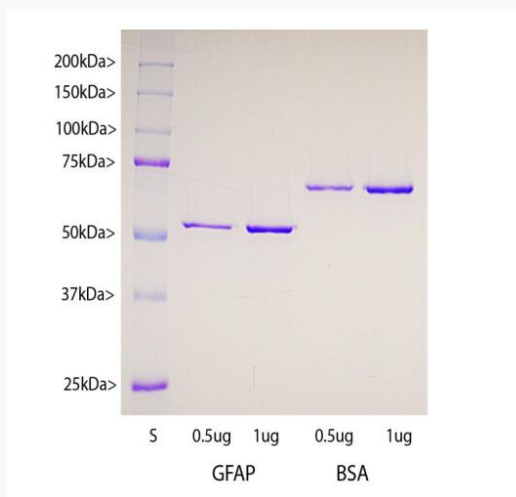
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MIM 137780

UniProt ID P14136



0.5 and 1 μ g of recombinant GFAP based on the human isotype I sequence was expressed in and purified from *E. coli* using standard methods and run out for SDS-PAGE in lanes on the left as indicated. The two rightmost lanes show 0.5 and 1 μ g of BSA protein standard. Lane S shows protein standards of the indicated molecular weights, gel was stained with Coomassie brilliant blue protein stain.

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