Native Porcine GFAP Protein

Cat. No. GFAP-18P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Porcine Glial Fibrillary Acidic Protein (GFAP) purified from spinal cord.
Species	Porcine
Source	Spinal Cord
Description	Glial fibrillary acidic protein (UniProt F1RR02) is encoded by the GFAP gene (Gene ID 396562) in porcine. GFAP is a type III intermediate filament (IF) thought to help maintain astrocyte mechanical strength and is closely related to vimentin, desmin, and peripherin, which are involved in the structure and function of cellular cytoskeleton. GFAP is expressed in astrocytes in the central nervous system (CNS), where it is involved in many important CNS processes, including cell communication and the blood brain barrier (BBC) function. GFAP contains the characteristic tripartite domain structure among IF members, a central α-helical rod domain (a.a. 73-377) flanked by a non-α-helical N-terminal head (a.a. 1-72) and a C-terminal tail (a.a. 378-432) domain. The head and tail domains are most structurally variable among IF proteins and their contributions to filament assembly vary depending on the IF proteins. For GFAP, the tail domain is reported to be important for filament assembly. The tail domain R416W mutation is linked to the neurological disorder Alexander disease (AxD).
Form	Liquid
Molecular Mass	calculated mol wt 49.44 kDa (428 a.a. spliced isoform; NP_001231326)

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	calculated mol wt 53.63 kDa (468 a.a. spliced isoform; XP_005668766)
Purity	> 99% (pure GFAP)
Applications	ELISA, Radioimmunoassay, WB
Storage	Maintain at -20 centigrade to -70 centigrade in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles. During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.
Concentration	1 mg/mL
Storage Buffer	PBS
Shipping	Dry Ice.

GENE INFORMATION

Gene Name	GFAP glial fibrillary acidic protein [Sus scrofa (pig)]
Official Symbol	GFAP
Synonyms	GFAP; glial fibrillary acidic protein; glial fibrillary acidic protein
Gene ID	396562
mRNA Refseq	NM_001244397

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Protein Refseq	NP_001231326
UniProt ID	F1RR02

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