

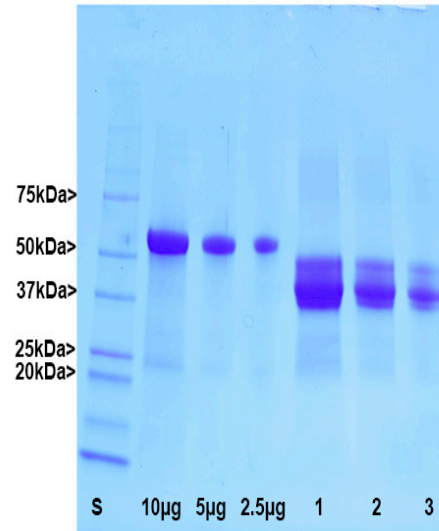
Ordering Information
 Web www.encorbio.com
 Email admin@encorbio.com
 Phone 352-372-7022
 Fax 352-372-7066

HGNC Name: GFAP
RRID: Pending
Format: 1mg/mL in 6M Urea
Storage: Store at -20°C
UniProt: Q28115

References:

1. Leung, C. L. and Liem, R. K. H. Isolation of intermediate filaments. *Curr. Prot. Cell Biol.* 3:Unit 3.23 doi: 10.1002/0471143030.cb0323s31 (2006).
2. 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.
3. Brenner M. et al.. Mutations in GFAP, encoding glial fibrillary acidic protein, are associated with Alexander disease. *Nat Genet* 27:117-20 2001
4. Liem RKH, Yen SH, Salomon GD and Shelanski ML. Intermediate filaments in nervous tissues. *J Cell Biol* 79:637-745 (1978).
5. Moeton, M. et al. GFAP isoforms control intermediate filament network dynamics, cell morphology, and focal adhesions *Cell Mol Life Sci* 73:4101-4120 (2016).

Applications	Host	Molecular Wt.	HGNC	UniPort
ELISA, western blotting standard	Cow	~50kDa	GFAP	Q28115



GFAP was isolated from bovine spinal cord using the the method of Leung and Liem as far as the 6M urea/hydroxyapatite step (1). The material was then fractionated using a phosphate gradient on DEAE-cellulose in 6M urea, and GFAP rich fractions were concentrated. Lane marked S shows protein molecular weight standards of indicated size. Next three lanes show indicated amounts of BSA standard. Lanes 1, 2 and 3 show purified bovine GFAP, each with half the amount as the previous. There are multiple isoforms of GFAP generated by alternate transcription from a single gene (5), and there are several possible post-translational modifications of the expressed isoforms. As a result, these preparations do not show a single protein band, but several, all of which can be bound with most monoclonal antibodies to GFAP.

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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dr—D. rerio Dm—D. melanogaster Sm—S. mutans Ce—C. elegans Sc—S. cerevisiae Sa—S. aureus Ec—E. coli.