



Polyclonal Anti- Glial fibrillary acidic protein, GFAP (Sepharose Bead Conjugate)

Catalogue No. PA1239-S

Lot No. 09F01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, rat, mouse. No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human GFAP, identical to the related rat and mouse sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4 °C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Glial fibrillary acidic protein (GFAP) is an intermediate-filament (IF) protein that is highly specific for cells of astroglial lineage, although its tissue-specific role is speculative.¹ GFAP has been located in rat kidney glomeruli and peritubular fibroblasts, leydig cells of testis, skin keratinocytes, osteocytes of bones, chondrocytes of epiglottis, bronchus, and stellate-shaped cells of the pancreas and liver. Its expression is essential for normal white matter architecture and blood-brain barrier integrity, and its absence leads to late-onset CNS dysmyelination.² GFAP has also been shown to play a role in mitosis by adjusting the filament network present in the cell. During mitosis, there is an increase in the amount of phosphorylated GFAP, and a movement of this modified protein to the cleavage furrow.³

REFERENCE

1. Reeves SA, Helman LJ, Allison A, Israel MA (1989). "Molecular cloning and primary structure of human glial fibrillary acidic protein". *Proc. Natl. Acad. Sci. U.S.A.* 86 (13): 5178–82.
2. Liedtke W, Edelmann W, Bieri PL, Chiu FC, Cowan NJ, Kucherlapati R, Raine CS (1996). "GFAP is necessary for the integrity of CNS white matter architecture and long-term maintenance of myelination". *Neuron* 17 (4): 607–15.
3. Tardy M, Fages C, Le Prince G, Rolland B, Nunez J (1990). "Regulation of the glial fibrillary acidic protein (GFAP) and of its encoding mRNA in the developing brain and in cultured astrocytes". *Adv. Exp. Med. Biol.* 265: 41–52.

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