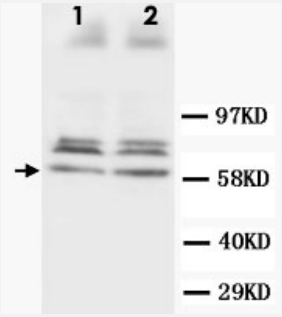
GFAP polyclonal antibody

Catalog # PAB12325 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western Blot analysis of GFAP expression from cell extracts with GFAP polyclonal antibody (Cat # PAB12325).
Lane 1 : rat brain tissue lysate.
Lane 2 : rat brain tissue lysate.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of GFAP on formalin fixed, paraffin embedded human brain tissue with GFAP polyclonal antibody (Cat # PAB12325).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GFAP.
Immunogen	A synthetic peptide corresponding to amino acids at C-terminus of human GFAP.
Host	Rabbit
Theoretical MW (kDa)	49, 50, 49.5
Reactivity	Human, Mouse, Rat
Specificity	Identical to the related rat and mouse sequence.
Form	Lyophilized

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na_2HPO_4 (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Gene Info — GFAP

Entrez GeneID	2670
Gene Name	GFAP
Gene Alias	FLJ45472
Gene Description	glial fibrillary acidic protein
Omim ID	137780 203450
Gene Ontology	Hyperlink

Gene Summary	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 g ene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alterna tive splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq
Other Designations	-

Publication Reference

- GFAP is necessary for the integrity of CNS white matter architecture and long-term maintenance of myelination.

  Liedtke W, Edelmann W, Bieri PL, Chiu FC, Cowan NJ, Kucherlapati R, Raine CS.

  Neuron 1996 Oct; 17(4):607.

  Application: IEM, IHC-Fr, IHC-P, Mouse, Mouse spinal cord

- Regulation of the glial fibrillary acidic protein (GFAP) and of its encoding mRNA in the developing brain and in cultured astrocytes.

  Tardy M, Fages C, Le Prince G, Rolland B, Nunez J.

  Advances in Experimental Medicine and Biology 1990 Jan; 265:41.

  Application: WB-Ce, WB-Ti, Mouse, Mouse astrocytes, Mouse brain

- Molecular cloning and primary structure of human glial fibrillary acidic protein.

  Reeves SA, Helman LJ, Allison A, Israel MA.

  PNAS 1989 Jul; 86(13):5178.

Disease

- Alzheimer disease
- Cognition