

Rabbit anti-human GFAP Polyclonal Antibody

Catalog Number: R16009P

General Information	
Immunogen	A synthetic peptide of human GFAP
IgG type	IgG
Clonality	Polyclonal
Specificity	human GFAP
Applications & dilution	WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:100
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity	≥95% purity by SDS-PAGE
Storage	Store at -20°C. Avoid freeze / thaw cycles.
Abbreviation: ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immunohistochemistry; IF: immunofluorescence. WB: western blot; FC: flowcytometry	

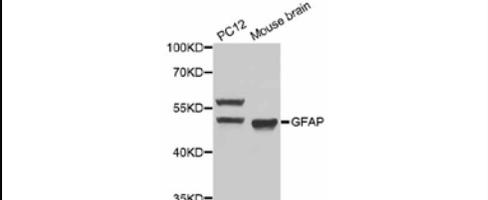
Background
The cytoskeleton consists of three types of cytosolic fibers: microfilaments (actin filaments), intermediate filaments, and microtubules. Major types of intermediate filaments are specifically expressed in particular cell types: cytokeratins in epithelial cells, glial fibrillary acidic protein (GFAP) in glial cells, desmin in skeletal, visceral, and certain vascular smooth muscle cells, vimentin in cells of mesenchymal origin, and neurofilaments in neurons. GFAP and vimentin form intermediate filaments in astroglial cells and modulate their motility and shape (1). In particular, vimentin filaments are present at early developmental stages, while GFAP filaments are characteristic of differentiated and mature brain astrocytes. Thus, GFAP is commonly used as a marker for intracranial and intraspinal tumors arising from astrocytes (2). In addition, GFAP intermediate filaments are also present in non-myelin-forming Schwann cells in the peripheral nervous system (3).

For research use only

Preparation
Polyclonal antibody is produced by immunizing rabbit with human GFAP protein and purified using protein A resin.

Applications

Western blot



Western blot analysis of extracts of various cell lines, using GFAP antibody.

Immunofluorescence



Immunofluorescence image showing neuroglial cells stained with GFAP antibody.

Immunohistochemistry



Immunohistochemistry of frozen neuroglial cells using GFAP antibody.

ELISA



ELISA image showing a colorimetric reaction in a well, indicating the presence of GFAP antigen.

Storage
This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

Hazard/Biohazard
This antibody contains 0.09% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.