

GFAP Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1460a**Specification**

GFAP Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	P14136
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	50kDa KDa

Description

GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells. Tissue specificity: Expressed in cells lacking fibronectin. ABCAM: It is heavily, and specifically, expressed in astrocytes and certain other astroglia in the central nervous system, in satellite cells in peripheral ganglia, and in non myelinating Schwann cells in peripheral nerves. In addition many types of brain tumor, presumably derived from astrocytic cells, heavily express GFAP. GFAP is also found in the lens epithelium, Kupffer cells of the liver, in some cells in salivary tumors and has been reported in erythrocytes.

Immunogen

Purified recombinant fragment of human GFAP expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

GFAP Antibody - Additional Information

Gene ID 2670

Other Names

Glial fibrillary acidic protein, GFAP, GFAP

Dilution

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

IF~~1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GFAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GFAP Antibody - Protein Information

Name GFAP

Function

GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.

Cellular Location

Cytoplasm. Note=Associated with intermediate filaments

Tissue Location

Expressed in cells lacking fibronectin.

GFAP Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GFAP Antibody - Images

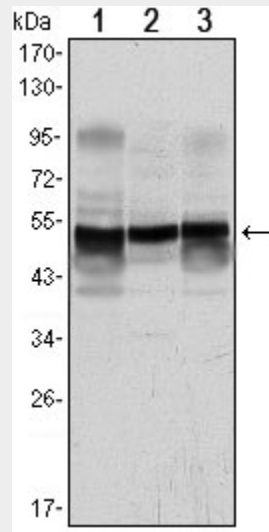


Figure 1: Western blot analysis using GFAP mouse mAb against A431 (1), SK-N-SH (2) and PC12 (3) cell lysate.

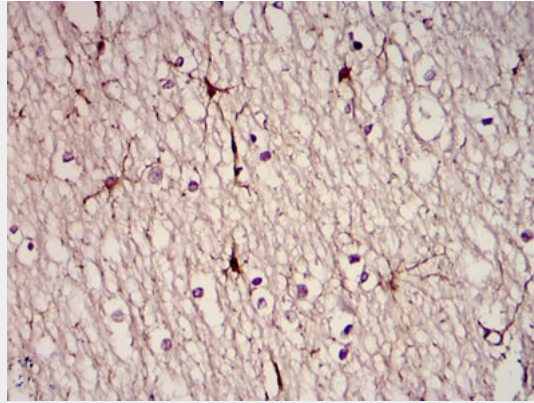


Figure 2: Immunohistochemical analysis of paraffin-embedded brain tissues using GFAP mouse mAb with DAB staining

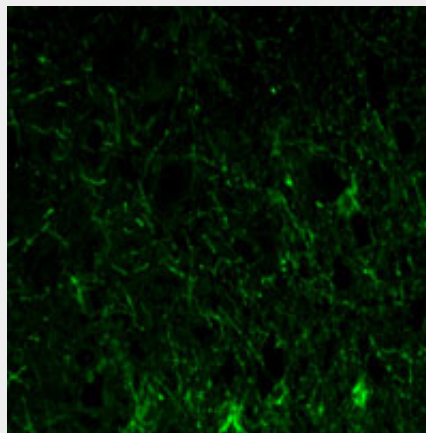


Figure 3: Immunofluorescence analysis of paraffin-embedded lobe of brain tissues using GFAP mouse mAb (green).

GFAP Antibody - References

1. Acta Neuropathol. 2009 Jun;117(6):667-75.
2. Schizophr Res. 2009 Jul;112(1-3):54-64.