

**Anti-GFAP Antibody**  
Catalog # ABO10614**Specification****Anti-GFAP Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P14136</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Glial fibrillary acidic protein(GFAP) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-GFAP Antibody - Additional Information**

**Gene ID** 2670

**Other Names**

Glial fibrillary acidic protein, GFAP, GFAP

**Calculated MW**

49880 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cytoplasm . Associated with intermediate filaments.

**Tissue Specificity**

Expressed in cells lacking fibronectin. .

**Protein Name**

Glial fibrillary acidic protein(GFAP)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human GFAP(417-432aa DGEVIKESKQEHKDVM), identical to the related rat sequence, and different from the related mouse sequence by two amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the intermediate filament family.

**Anti-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

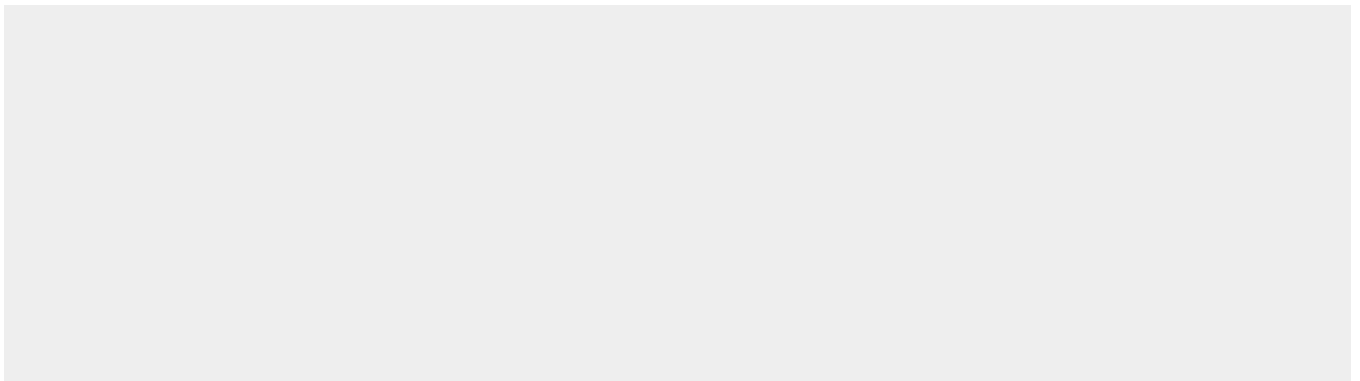
**Tissue Location**

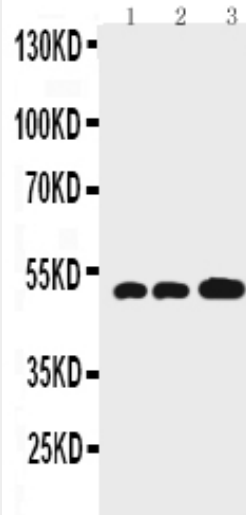
Expressed in cells lacking fibronectin.

**Anti-GFAP Antibody - Protocols**

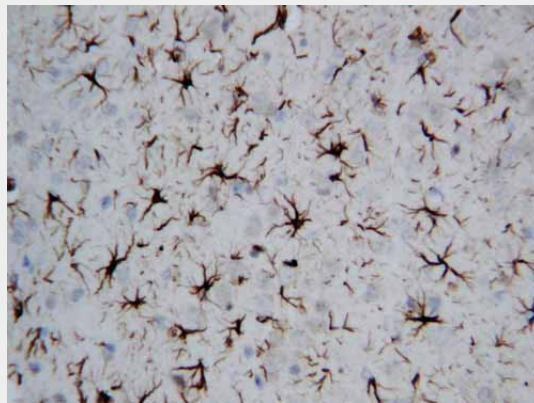
Provided below are standard protocols that you may find useful for product applications.

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

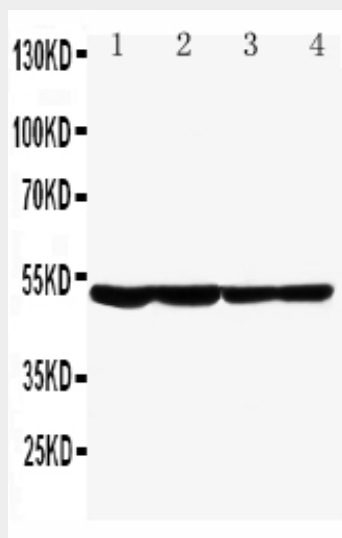
**Anti-GFAP Antibody - Images**



Anti-GFAP antibody, ABO10614, Western blotting All lanes: Anti GFAP(ABO10614) at 0.5ug/ml  
 Lane 1: Rat Brain Tissue Lysate at 50ug  
 Lane 2: Mouse Brain Tissue Lysate at 50ug  
 Lane 3: U87 Whole Cell Lysate at 40ug  
 Predicted bind size: 49KD  
 Observed bind size: 49KD



Anti-GFAP antibody, ABO10614, IHC(P)  
 IHC(P): Rat Brain Tissue



Anti-GFAP antibody, ABO10614, Western blotting  
 Lane 1: Rat Brain Tissue Lysate  
 Lane 2: Rat Brain Tissue Lysate  
 Lane 3: Mouse Brain Tissue Lysate  
 Lane 4: Mouse Brain Tissue Lysate

**Anti-GFAP Antibody - 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. 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. 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.