10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-GFAP Picoband Antibody

Catalog # ABO11794

Specification

Anti-GFAP Picoband Antibody - Product Information

Application	**IHC**
Primary Accession	P14136
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 Picoband 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, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm . Associated with intermediate filaments.

Tissue Specificity
Expressed in cells lacking fibronectin. .

Protein Name
Glial fibrillary acidic protein

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human GFAP recombinant protein (Position: Q93-M432). Human GFAP shares 94% amino acid (aa) sequence identity with both mouse and rat GFAP.

Purification

Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, 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 Picoband 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 Picoband 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 Cytomety
- Cell Culture

Anti-GFAP Picoband Antibody - Images

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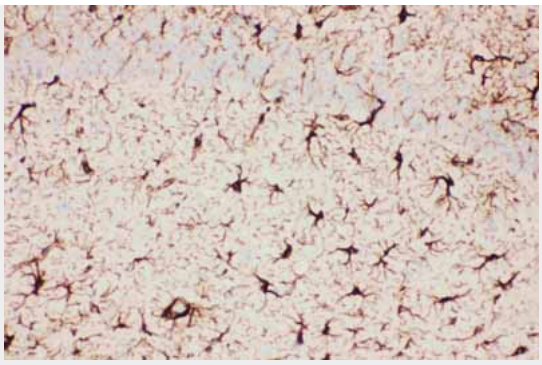
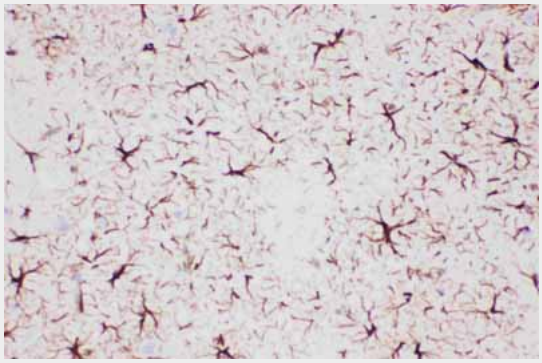
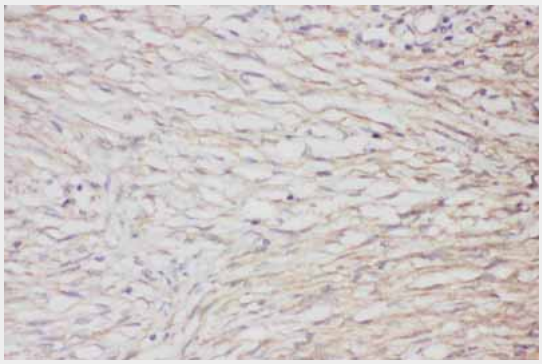


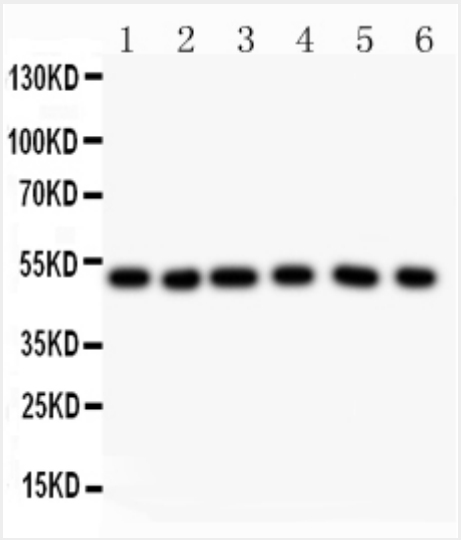
Anti-GFAP Picoband antibody, ABO11794-1.JPGIHC(P): Mouse Brain Tissue



Anti-GFAP Picoband antibody, ABO11794-2.JPGIHC(P): Rat Brain Tissue



Anti-GFAP Picoband antibody, ABO11794-3.JPGIHC(P): Human meningioma Tissue



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Anti-GFAP Picoband antibody, ABO11794-4.jpgAll lanes: Anti-GFAP(ABO11794) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 40ugLane 2: Mouse Brain Tissue Lysate at 40ugLane 3: U87 Whole Cell Lysate at 40ugLane 4: SHG Whole Cell Lysate at 40ugLane 5: NEURO Whole Cell Lysate at 40ugLane 6: Hela Whole Cell Lysate at 40ugPredicted bind size: 49KDObserved bind size: 49KD

Anti-GFAP Picoband Antibody - Background

Glial fibrillary acidic protein (GFAP) is a protein that is encoded by the GFAP gene in humans. It is an intermediate filament(IF) protein that is expressed by numerous cell types of the central nervous system (CNS) including astrocytes, and ependymal cells. It is mapped to 17q21.31. GFAP is closely related to its non-epithelial family members, vimentin, desmin, and peripherin, which are all involved in the structure and function of the cellâ€™s cytoskeleton. GFAP is thought to help to maintain astrocyte mechanical strength, as well as the shape of cells. This gene has been shown to play a role in mitosis by adjusting the filament network present in the cell. GFAP is necessary for many critical roles in the CNS. Whatâ€™s more, GFAP also plays a role in astrocyte-neuron interactions as well as cell-cell communication.