

## GFAP (5C8) Mouse mAb

CatalogNo: YM3059

Orthogonal Validated 

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human,Rat,Mouse

#### Applications

- WB,IHC,IF,

#### MW

- 45kD (Observed)

### Recommended Dilution Ratios

WB 1:2000-5000

IF 1:200

IHC 1:50-300

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

### Basic Information

**Clonality** Monoclonal**Clone Number** 5C8

### Immunogen Information

**Immunogen** Synthetic Peptide of GFAP**Specificity** The antibody detects endogenous GFAP proteins.

## | Target Information

**Gene name** GFAP

**Protein Name** Glial fibrillary acidic protein

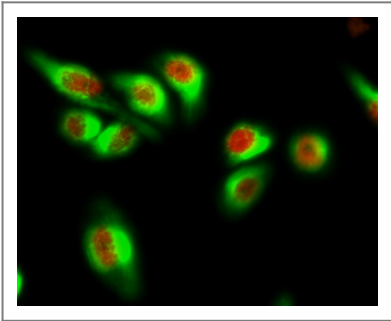
Organism	Gene ID	UniProt ID
Human	<a href="#">2670;</a>	<a href="#">P14136;</a>
Mouse	<a href="#">14580;</a>	<a href="#">P03995;</a>
Rat	<a href="#">24387;</a>	<a href="#">P47819;</a>

**Cellular Localization** Cytoplasm . Associated with intermediate filaments. .

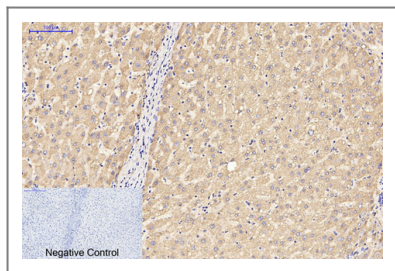
**Tissue specificity** Expressed in cells lacking fibronectin.

**Function** Alternative products:Isoforms differ in the C-terminal region which is encoded by alternative exons,Disease:Defects in GFAP are a cause of Alexander disease (ALEXD) [MIM:203450]. Alexander disease is a rare disorder of the central nervous system. It is a progressive leukoencephalopathy whose hallmark is the widespread accumulation of Rosenthal fibers which are cytoplasmic inclusions in astrocytes. The most common form affects infants and young children, and is characterized by progressive failure of central myelination, usually leading to death usually within the first decade. Infants with Alexander disease develop a leukoencephalopathy with macrocephaly, seizures, and psychomotor retardation. Patients with juvenile or adult forms typically experience ataxia, bulbar signs and spasticity, and a more slowly progressive course.,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.,online information:GFAP entry,similarity:Belongs to the intermediate filament family.,subcellular location:Associated with intermediate filaments.,subunit:Interacts with SYNM (By similarity). Isoform 3 interacts with PSEN1 (via N-terminus).,tissue specificity:Expressed in cells lacking fibronectin.,

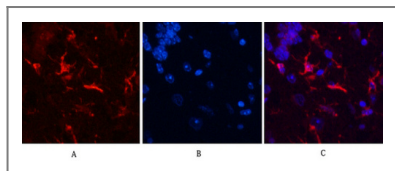
## | Validation Data



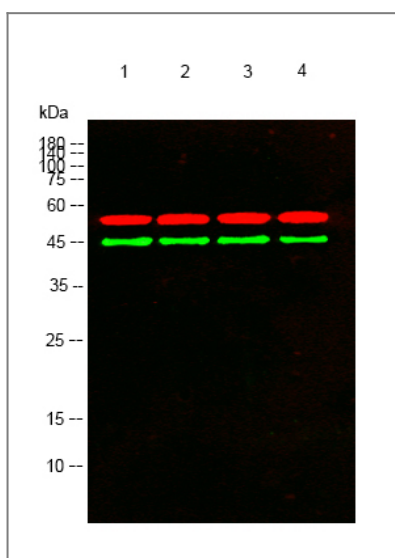
Immunofluorescence analysis of Hela cell. 1,AR Polyclonal Antibody(red) was diluted at 1:200(4° overnight). GFAP Monoclonal Antibody(5C8)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1,GFAP Monoclonal Antibody(5C8) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Mouse-brain tissue. 1,GFAP Monoclonal Antibody(5C8)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of lysates from 1) Rat Brain Tissue, 2)HeLa, 3)A431, 4) PC12 cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23910)was diluted at 1:10000, 37° 1hour. (Red) Tubulin β Polyclonal Antibody (cat:YT4780) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23720)was diluted at 1:10000, 37° 1hour.

## Contact information

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**GFAP (5C8) Mouse mAb**

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