

GFAP Mouse Monoclonal Antibody

Catalog No: #38014

Package Size: #38014 100ul

Description

Product Name	GFAP Mouse Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Applications	Human;Rat;Mouse
Species Reactivity	Rt Ms
Specificity	The GFAP Mouse Monoclonal antibody detects endogenous GFAP proteins.
Conjugates	Unconjugated
Target Name	GFAP
Other Names	FLJ45472; GFAP; Glial fibrillary acidic protein
Accession No.	Swiss-Prot#:P14136
SDS-PAGE MW	45kd
Concentration	1.0mg/ml
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Storage	Store at -20°C

Application Details

WB: 1:2000~1:5000

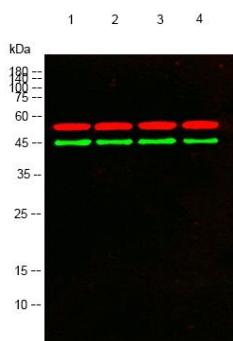
IHC dilution:1:50-300

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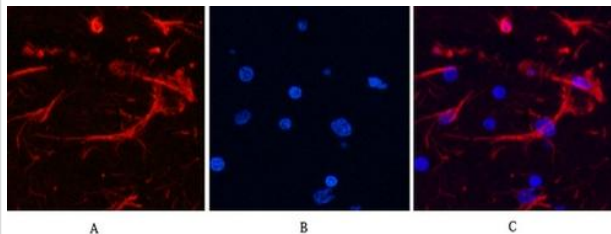
IF: 1:100-1:200

IF dilution:1:200

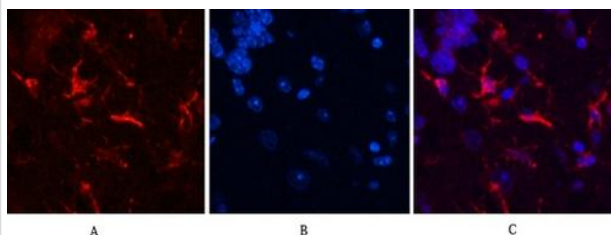
Images



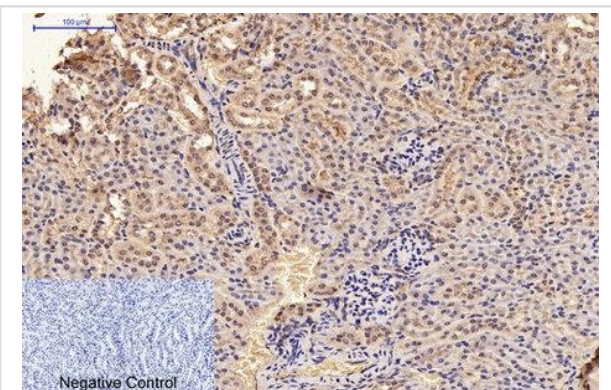
Western blot analysis of lysates from 1) Rat Brain Tissue, 2)HeLa , 3)A431, 4) PC12 cells, (Green) primary antibody was diluted at 1:1000, 4° over night, secondary antibody was diluted at 1:10000, 37° 1hour. (Red) Tubulin β Polyclonal Antibody antibody was diluted at 1:5000 as loading control, 4° over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



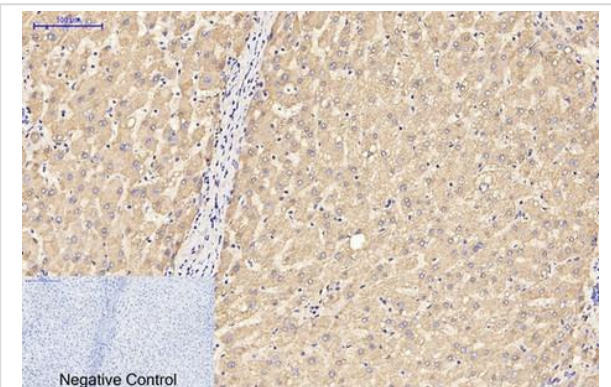
Immunofluorescence analysis of Rat-brain tissue. 1,GFAP Monoclonal Antibody(5C8)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



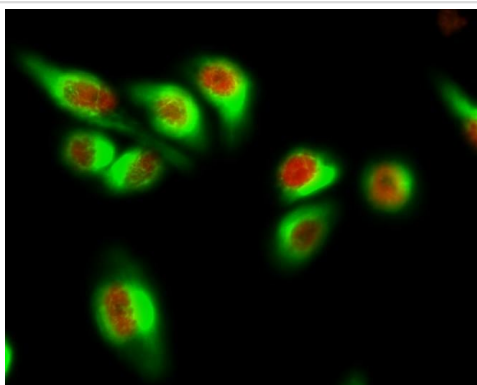
Immunofluorescence analysis of Mouse-brain tissue. 1,GFAP Monoclonal Antibody(5C8)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Mouse-kidney 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.



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 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 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 was diluted at 1:1000(room temperature, 50min).

Background

This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008],

Published Papers

el at., Astragalin Alleviates Neuropathic Pain by Suppressing P2X4-Mediated Signaling in the Dorsal Root Ganglia of Rats. In Front Neurosci on 2021 Jan 11 by Mengke Wang, Xia Cai,et al..PMID:33505232, , (2020)

[PMID:33505232](#)

el at., Effects of Porphyromonas gingivalis and Its Underlying Mechanisms on Alzheimer-Like Tau Hyperphosphorylation in Sprague-Dawley Rats. In J Mol Neurosci on 2021 Jan by Zhiquan Tang, Dan Liang,et al..PMID:32557144, , (2021)

[PMID:32557144](#)

el at., Astragalin Alleviates Neuropathic Pain by Suppressing P2X4-Mediated Signaling in the Dorsal Root Ganglia of Rats. In Front Neurosci on 2021 Jan 11 by Mengke Wang, Xia Cai, et al..PMID:33505232, , (2021)

[PMID:33505232](#)

el at., The inhibition of PGAM5 suppresses seizures in a kainate-induced epilepsy model via mitophagy reduction.In Front Mol Neurosci on 2022 Dec 22 by Fuxin Zhong, Yunhao Gan, et al..PMID:36618822, , (2022)

[PMID:36618822](#)

el at., Amiloride alleviates morphine tolerance by suppressing ASIC3-dependent neuroinflammation in the spinal cord. In Eur J Pharmacol on 2024 Jan 15 by Liba Gei, Yan Yan,et al..PMID:37918499, , (2024)

[PMID:37918499](#)

Lei Chen;Xia Zhao;Rui Sheng;Philip Lazarovici;Wenhua Zheng el at., Artemisinin alleviates astrocyte overactivation and neuroinflammation by modulating the IRE1/NF-κB signaling pathway in in vitro and in vivo Alzheimer's disease models., , (2025)

[PMID:39826816](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.