GFAP Mouse Monoclonal Antibody

Catalog No: #38014

Package Size: #38014-1 50ul #38014-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

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	WB IHC IF
Species Reactivity	HumanoO RatoO Mouse
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

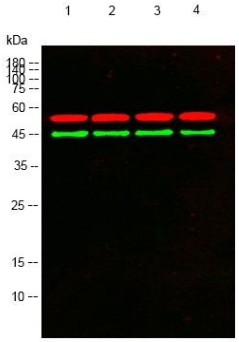
Application Details

WB: 1:2000~1:5000

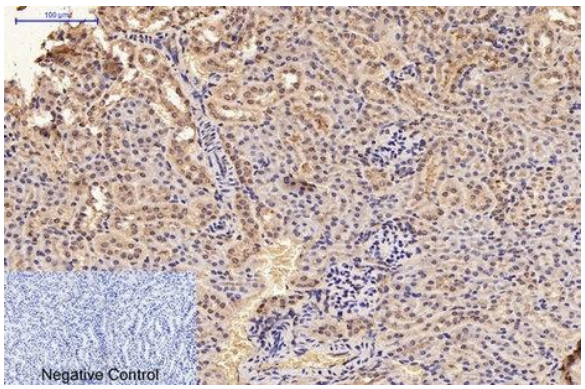
IHC: 1:50-300

IF: 1:100-1:200

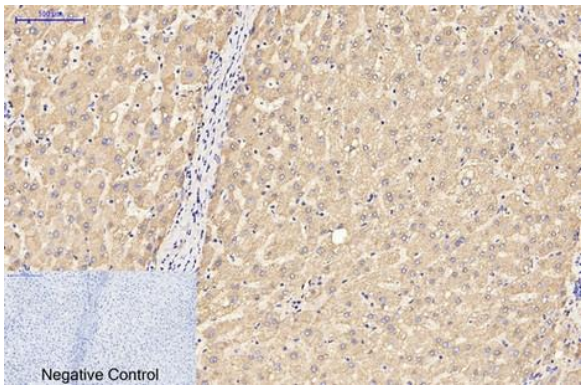
Images



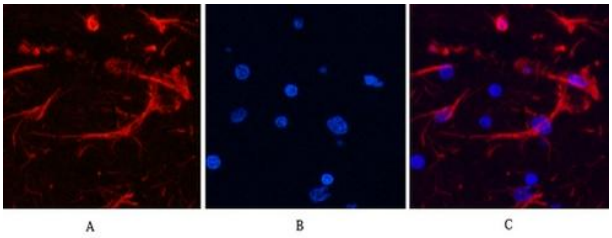
Western blot analysis of lysates from 1) Rat Brain Tissue, 2)HeLa , 3)A431, 4) PC12 cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody was diluted at 1:10000, 37° 1hour. (Red) Tubulin β Polyclonal Antibody antibody was diluted at 1:5000 as loading control, 4° over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



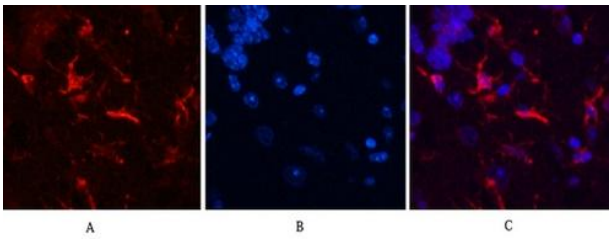
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,GFAP Monoclonal Antibody(5C8) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used 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 Rat-brain tissue. 1,GFAP Monoclonal Antibody(5C8)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled 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



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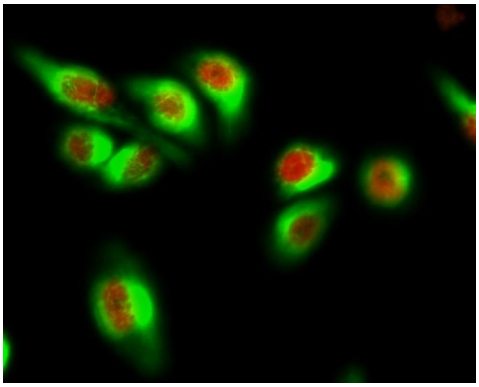

Immunofluorescence analysis of Hela cell. 1,AR Polyclonal Antibody(red) was diluted at 1:200(4° overnight). GFAP Monoclonal Antibody(5C8)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 was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

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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)

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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.