

Rabbit Anti-GFAP antibody

SL0199R

Product Name:	GFAP
Chinese Name:	胶 质纤维 酸性蛋白抗体
Alias:	Astrocyte; FLJ45472; GFAP; Glial Fibrillary Acidic Protein; Intermediate filament protein; GFAP_HUMAN.
文献引用	Specific References(14) SL0199R has been referenced in 14 publications.
	[IF=10.82]Zhao, Hongyu, et al. "Mice deficient in Epg5 exhibit selective neuronal
	vulnerability to degeneration." The Journal of Cell Biology (2013).IHC-P;Mouse.
	PubMed:23479740
	[IF=4.65]Zhao, Yan G., et al. "The p53-induced gene Ei24 is an essential component of
	the basal autophagy pathway." Journal of Biological Chemistry 287.50 (2012): 42053-
	42063.Mouse.
	PubMed:23074225
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Rub Med	[IF=3.73]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on
Pub Med	[IF=3.73] Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular
Pub Med	[IF=3.73] Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular Neuroscience(2013): 1-9IF(ICC);Rat.
Pub Med	[IF=3.73] Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular Neuroscience(2013): 1-9 IF(ICC);Rat . <u>PubMed:24130900</u>
Pub Med	[IF=3.73]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular Neuroscience(2013): 1-9IF(ICC);Rat. PubMed:24130900 [IF=2.93]Liu, Yang, et al. "A Simple Method for Isolating and Culturing the Rat Brain
Pub Med	[IF=3.73]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular Neuroscience(2013): 1-9IF(ICC);Rat. PubMed:24130900 [IF=2.93]Liu, Yang, et al. "A Simple Method for Isolating and Culturing the Rat Brain Microvascular Endothelial Cells." Microvascular Research (2013).Rat.
Pub Med	[IF=3.73]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular Neuroscience(2013): 1-9IF(ICC);Rat. <u>PubMed:24130900</u> [IF=2.93]Liu, Yang, et al. "A Simple Method for Isolating and Culturing the Rat Brain Microvascular Endothelial Cells." Microvascular Research (2013).Rat. <u>PubMed:23978334</u>
Pub Med :	 [IF=3.73]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular Neuroscience(2013): 1-9IF(ICC);Rat. [IF=2.93]Liu, Yang, et al. "A Simple Method for Isolating and Culturing the Rat Brain Microvascular Endothelial Cells." Microvascular Research (2013).Rat. [IF=2.89]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on
Pub Med	 [IF=3.73]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular Neuroscience(2013): 1-9IF(ICC);Rat. [IF=2.93]Liu, Yang, et al. "A Simple Method for Isolating and Culturing the Rat Brain Microvascular Endothelial Cells." Microvascular Research (2013).Rat. [IF=2.89]Xiang, Yanxiao, et al. "Anti-inflammatory Effect of Acetylpuerarin on Eicosanoid Signaling Pathway in Primary Rat Astrocytes."Journal of Molecular

PubMed:24026619

[IF=1.29]Fan, Lixing, et al. "Directed differentiation of aged human bone marrow multipotent stem cells effectively generates dopamine neurons."?In Vitro Cellular & Developmental Biology-Animal?(2013): 1-9.**Human**.

PubMed:24163158

[IF=2.65]Zuo, Daiying, et al. "Existence of glia mitigated ketamine-induced neurotoxicity in neuron-glia mixed cultures of neonatal rat cortex and the glia-mediated protective effect of 2-PMPA." Neurotoxicology (2014).**Rat**.

PubMed:24931484

[IF=10.53]Ma, Benyu, et al. "Dapper1 promotes autophagy by enhancing the Beclin1-Vps34-Atg14L complex formation." Cell Research (2014).**IHC-F;Mouse**.

PubMed:24980960

[IF=7.58]Shan, Chun-Lei, et al. "High Efficiency Intracellular Transport of Cationic Peptide Stearate for Gene Delivery in Tumor Cells and Multipotent Stem Cells." Journal of Biomedical Nanotechnology 10.11 (2014): 3231-3243.other;

PubMed:26000383

[IF=5.29]Du, Wenzhong, et al. "Targeting the SMO oncogene by miR-326 inhibits glioma biological behaviors and stemness." Neuro-Oncology (2014): nou217.IHC-F;Human.

PubMed:25173582

[IF=11.42]Zhao, Yan G., et al. "The autophagy gene Wdr45/Wipi4 regulates learning and memory function and axonal homeostasis." Autophagy (2015).IHC-P;Mouse.

PubMed:26000824

[IF=2.86]Mori, Miki, et al. "Stromal Cell-Derived Factor-1α Plays a Crucial Role Based on Neuroprotective Role in Neonatal Brain Injury in Rats." International Journal of Molecular Sciences 16.8 (2015): 18018-18032.**IHC-F;Rat**.

PubMed:26251894

[IF=2.47]Yan, Yu-hui, et al. "Osthole Protects Bone Marrow-Derived Neural Stem Cells from Oxidative Damage through PI3K/Akt-1 Pathway." Neurochemical Research (2016): 1-8.other;Mouse.

PubMed:27734182

[IF=0.00]Liao, Wei-Tao, et al. "The effect of celastrol on learning and memory in

	diabetic rats after sevoflurane inhalation." (2016).IHC-P;Rat.
	PubMed:0
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:200-1000IHC-F=1:200-1000Flow-
	Cyt=1µg/TestICC=1:100-500IF=1:200-800(Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	48kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GFAP:51-150432
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
Storage:	antibody is stable at room temperature for at least one month and for greater than a year
	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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]
	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.
	Subunit: Interacts with SYNM. Isoform 3 interacts with PSEN1 (via N-terminus).
	Subcellular Location: Cytoplasm. Note=Associated with intermediate filaments.
	Tissue Specificity: Expressed in cells lacking fibronectin.
	Post-translational modifications: Phosphorylated by PKN1.

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.

Similarity:

joiotech.cot Belongs to the intermediate filament family.

SWISS: P14136

Gene ID: 2670

Database links:

Entrez Gene: 281189Cow

Entrez Gene: 2670Human

Entrez Gene: 14580Mouse

Entrez Gene: 24387Rat

Omim: 137780Human

SwissProt: Q28115Cow

SwissProt: P14136Human

SwissProt: P03995Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

星形胶质细胞Maker (Astrocyte Marker)

GFAP是一个56kDa的中间丝蛋白(intermediate filament, IF), 在中枢神经系统发育期是一个特异性的Maker, 以区别星形细胞和其 它胶质细胞。GFAP表达在皮层和海马,急、慢性皮质酮治疗时表达减少。











Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GFAP) Polyclonal Antibody, Unconjugated (SL0199R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.







Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GFAP) Polyclonal Antibody, Unconjugated (SL0199R) at 1:200 overnight at 4°C, followed by a conjugated secondary (SL0199R) at [1:500] for 90 minutes and DAPI staining of the nuclei.



overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3

conjugated(SL0199R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



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