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Datasheet for ABIN3043832 anti-GFAP antibody (AA 93-432)

4 Images

82 Publications



Overview

Quantity:	100 µg
Target:	GFAP
Binding Specificity:	AA 93-432
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GFAP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Glial fibrillary acidic protein(GFAP) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Purpose: Immunogen:	Rabbit IgG polyclonal antibody for Glial fibrillary acidic protein(GFAP) detection. Tested with WB, IHC-P in Human,Mouse,Rat.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.
Purpose: Immunogen: Isotype:	Rabbit IgG polyclonal antibody for Glial fibrillary acidic protein(GFAP) detection. Tested with WB, IHC-P in Human,Mouse,Rat.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.IgG
Purpose: Immunogen: Isotype: Cross-Reactivity (Details):	Rabbit IgG polyclonal antibody for Glial fibrillary acidic protein(GFAP) detection. Tested with WB, IHC-P in Human,Mouse,Rat.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.IgGNo cross reactivity with other proteins.
Purpose: Immunogen: Isotype: Cross-Reactivity (Details): Characteristics:	Rabbit IgG polyclonal antibody for Glial fibrillary acidic protein(GFAP) detection. Tested with WB, IHC-P in Human,Mouse,Rat.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.IgGNo cross reactivity with other proteins.Rabbit IgG polyclonal antibody for Glial fibrillary acidic protein(GFAP) detection. Tested with WB, IHC-P in Human,Mouse,Rat.Gene Name: glial fibrillary acidic protein Protein Name: Glial fibrillary acidic protein

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Target Details

Target:	GFAP
Alternative Name:	GFAP (GFAP Products)
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 cell'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. What's more, GFAP also plays a role in astrocyte-neuron interactions as well as cell-cell communication. Synonyms: Astrocyte antibody FLJ42474 antibody FLJ45472 antibody GFAP antibody GFAP_HUMAN antibody Glial Fibrillary Acidic Protein antibody Intermediate filament protein antibody
Gene ID:	2670
UniProt:	P14136

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 μ g/mL, Tested Species: Human, Mouse, Rat, The detection limit for
	GFAP is approximately 0.25 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the
	staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized

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Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, 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.
Publications	
Product cited in:	Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1 expression." in: Experimental and therapeutic medicine , Vol. 14, Issue 3, pp. 1975-1982, (2017) (PubMed).
	Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: SpringerPlus , Vol. 5, pp. 215, (2016) (PubMed).
	Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: Cardiovascular diabetology , Vol. 12, pp. 37, (2013) (PubMed).
	Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: Journal of medicinal food , Vol. 16, Issue 7, pp. 577-86, (2013) (PubMed).
	Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF- kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: Brain research , Vol. 1321, pp. 143-51, (2010) (PubMed).

There are more publications referencing this product on: Product page

Validation report #300030 for Immunohistochemistry (IHC)





Immunohistochemistry

Image 1. Anti-GFAP Picoband antibody, IHC(P): Mouse Brain Tissue

Immunohistochemistry

Image 2. Anti-GFAP Picoband antibody, IHC(P): Human meningioma Tissue



Immunohistochemistry

Image 3. Anti-GFAP Picoband antibody, IHC(P): Rat Brain Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3043832.

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