

GFAP Monoclonal Antibody (GA5), eFluor 570, eBioscience™

Product Details

Size	25 µg
Species Reactivity	Chicken, Human, Mouse, Pig, Rabbit, Rat
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	GA5
Conjugate	eFluor® 570
Form	Liquid
Concentration	0.2 mg/mL
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573655

Applications	Tested Dilution	Publications
Western Blot (WB)	-	0 Publication
Immunohistochemistry (IHC)	-	8 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1 µg/mL	0 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	0 Publication
Immunocytochemistry (ICC/IF)	Assay-Dependent	3 Publications

Product Specific Information

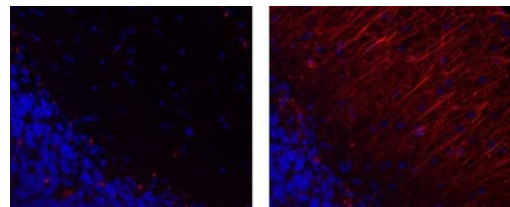
Description: This GA5 monoclonal antibody reacts with human, mouse, rat, chicken, rabbit, and pig glial fibrillary acidic protein (GFAP). This 49-kDa type III intermediate filament protein is expressed in neural tissues and distinguishes astrocytes from other glial cells during central nervous system development. Three alternative splice variants of GFAP exist; however, alpha-GFAP is the predominant form expressed in astrocytes. GFAP can co-assemble with vimentin and nestin in astrocytes, but such associations are not required for assembly. Like other intermediate filaments, GFAP assembly is dependent on phosphorylation and dephosphorylation of the N-terminal domain. Studies have demonstrated that mutations in the GFAP gene lead to Alexander disease. Moreover, GFAP has also been shown to be overexpressed in certain glial-derived tumors.

Applications Reported: This GA5 antibody has been reported for use in immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, and immunocytochemistry.

Applications Tested: This GA5 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue using low pH antigen retrieval. The antibody can be used at less than or equal to 1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filter Recommendation: When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is acceptable.

Excitation: 555 nm; Emission: 570 nm



GFAP Antibody (41-9892-80) in IHC (P)
Immunohistochemistry of formalin-fixed paraffin embedded human cerebellum using 1 µg/mL of Mouse IgG1 K Isotype Control eFluor® 570 (left) or 1 µg/mL of Anti-Glial Fibrillary Acidic Protein (GFAP) eFluor® 570 (right). Nuclei are stained with DAPI.

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11 References

Immunohistochemistry (8)

<p>PloS one</p> <p>Studies of involvement of G-protein coupled receptor-3 in cannabidiol effects on inflammatory responses of mouse primary astrocytes and microglia.</p> <p>"Published figure using GFAP monoclonal antibody (Product # 41-9892-82) in Immunohistochemistry"</p> <p>Authors: Wu J,Chen N,Liu Y,Godlewski G,Kaplan HJ,Shrader SH,Song ZH,Shao H</p>	<p>Year</p> <p>2021</p>
<p>Neurology(R) neuroimmunology & neuroinflammation</p> <p>CSF SERPINA3 Levels Are Elevated in Patients With Progressive MS.</p> <p>"Published figure using GFAP monoclonal antibody (Product # 41-9892-82) in Immunohistochemistry"</p> <p>Authors: Fissolo N,Matute-Blanch C,Osman M,Costa C,Pintea R,Miró B,Sanchez A,Brito V,Dujmovic I,Voortman M, Khalil M,Borrás E,Sabido E,Issazadeh-Navikas S,Montalban X,Comabella Lopez M</p>	<p>Year</p> <p>2021</p>

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Immunocytochemistry (3)

<p>Scientific reports</p> <p>Neuroprotective effect of ACTH on collagenase-induced peri-intraventricular hemorrhage in newborn male rats.</p> <p>"Published figure using GFAP monoclonal antibody (Product # 41-9892-82) in Immunocytochemistry"</p> <p>Authors: Martins CA,Neves LT,de Oliveira MMBP,Bagatini PB,Barboza R,Mestriner RG,Xavier LL,Rasia-Filho AA</p>	<p>Year</p> <p>2020</p>
<p>Frontiers in pharmacology</p> <p>Inhibition of GSK3 and RIP1K Attenuates Glial Scar Formation Induced by Ischemic Stroke <i>via</i> Reduction of Inflammatory Cytokine Production.</p> <p>"Published figure using GFAP monoclonal antibody (Product # 41-9892-82) in Immunohistochemistry"</p> <p>Authors: Liu J,Zhu YM,Guo Y,Lin L,Wang ZX,Gu F,Dong XY,Zhou M,Wang YF,Zhang HL</p>	<p>Year</p> <p>2020</p>

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