

GFAP Monoclonal Antibody (GA5), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Chicken, Human, Mouse, Pig, Rabbit, Rat
Published Species	Rabbit, Rat, Mouse, Human
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GA5
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10598515

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	30 Publications
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	-
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	10 µg/mL	8 Publications
Flow Cytometry (Flow)	Assay-Dependent	5 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.

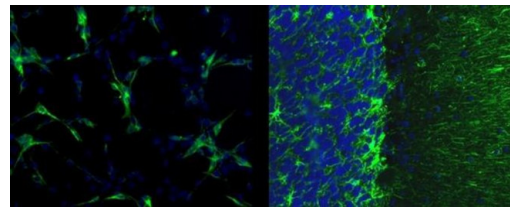
Applications Reported: This GA5 antibody has been reported for use in intracellular staining followed by flow cytometric analysis, immunohistology staining of frozen and FFPE tissue sections, and immunocytochemistry.

Applications Tested: This GA5 antibody has been tested by immunocytochemistry of fixed and permeabilized C6 cells and by immunohistochemistry of formalin-fixed paraffin embedded human tissue using low pH antigen retrieval. This can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For GFAP Monoclonal Antibody (GA5), Alexa Fluor™ 488, eBioscience™



GFAP Antibody (53-9892-82) in ICC/IF
Immunocytochemistry of fixed and permeabilized C6 cells (left) or immunohistochemistry of formalin-fixed paraffin embedded human cerebellum (right) using 10 µg/mL Anti-GFAP Alexa Fluor® 488. Nuclei were counterstained with DAPI.

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Western Blot (1)

Frontiers in psychiatry	Year 2021
Plasma Levels of Neuron- and Astrocyte-Derived Exosomal Amyloid Beta1-42, Amyloid Beta1-40, and Phosphorylated Tau Levels in Schizophrenia Patients and Non-psychiatric Comparison Subjects: Relationships With Cognitive Functioning and Psychopathology.	
"Published figure using GFAP monoclonal antibody (Product # 53-9892-82) in Western Blot"	
Authors: Lee EE,Winston-Gray C,Barlow JW,Rissman RA,Jeste DV	

Immunohistochemistry (30)

Brain communications	Year 2024
Principal component analysis, a useful tool to study cyclin-dependent kinase-inhibitor's effect on cerebral ischaemia.	Species Rat
"53-9892-82 was used in Immunohistochemistry-immunofluorescence to study the mechanisms implicated in the anti-oedematous effect of (S)-roscovitine in a transient middle cerebral artery occlusion rat model 48 h after reperfusion."	Dilution 1:200
Authors: Le Roy L,Amara A,Le Roux C,Bocher O,Létondor A,Benz N,Timsit S	

The Journal of clinical investigation	Year 2023
APOE-4 synergizes with sleep disruption to accelerate A deposition and A-associated tau seeding and spreading.	Species Mouse
"53-9892-82 was used in Immunohistochemistry-immunofluorescence to suggest that the APOE-4 genotype is a critical modifier in the development of AD pathology in response to SD."	Dilution 1:500
Authors: Wang C,Nambiar A,Strickland MR,Lee C,Parhizkar S,Moore AC,Musiek ES,Ulrich JD,Holtzman DM	

[View more IHC references on thermofisher.cn](#)

Immunohistochemistry (Frozen) (2)

Neurology(R) neuroimmunology & neuroinflammation	Year 2021
CSF SERPINA3 Levels Are Elevated in Patients With Progressive MS.	
"Published figure using GFAP monoclonal antibody (Product # 53-9892-82) in Immunohistochemistry"	
Authors: Fissolo N,Matute-Blanch C,Osman M,Costa C,Pintea C,Miró B,Sanchez A,Brito V,Dujmovic I,Voortman M,Khalil M,Borràs E,Sabido E,Issazadeh-Navikas S,Montalban X,Comabella Lopez M	

More applications with references on thermofisher.cn

- ICC/IF (8)
- Flow (5)

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