

GFAP Monoclonal Antibody (GF-01)

Catalog NumberMA1-19170

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Cat, Human, Pig
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL
Clone	GF-01	Immunoprecipitation (IP)	Assay-dependent
Immunogen	Pellet of pig brain cold-stable proteins after depolymerization of Microtubules.	Western Blot (WB)	Assay-dependent
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	5-10 µg/mL
Form	Liquid	Published Applications	
Concentration	1 mg/mL	Immunocytochemistry (ICC/IF)	See 1 publications below
Purification	Protein A	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS, pH 7.4		
Contains	15mM sodium azide		
Storage Conditions	4° C, do not freeze		

Product specific information

This antibody will not cross-react with rat.

Background/Target Information

GFAP (Glial fibrillary acidic protein) is a member of the class III intermediate filament protein family. GFAP is heavily and specifically expressed in astrocytes and certain astroglia of the central nervous system, in satellite cells of peripheral ganglia, and in non-myelinating Schwann cells of peripheral nerves. In addition, neural stem cells strongly express GFAP. Antibodies to GFAP are very useful as markers of astrocytic cells. In addition, many types of brain tumor, presumably derived from astrocytic cells, heavily express GFAP. GFAP is also found in the lens epithelium, Kupffer cells of the liver, in some cells in salivary tumors and has been reported in erythrocytes. GFAP 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 of the GFAP gene results in multiple transcript variants encoding distinct isoforms.

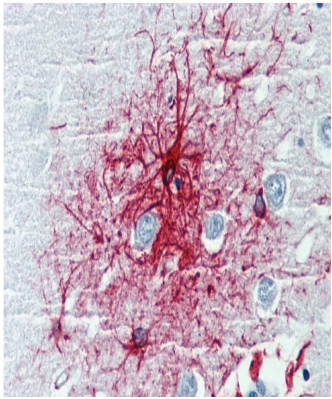
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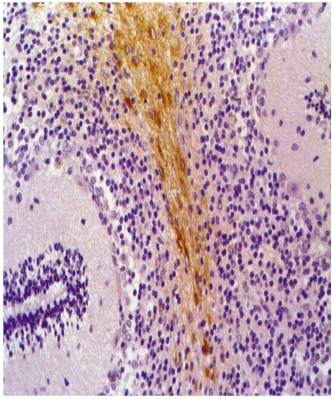
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Product Images For GFAP Monoclonal Antibody (GF-01)



GFAP Antibody (MA1-19170) in IHC (P)
Immunohistochemistry staining of human brain cortex (paraffin-embedded sections) with anti-GFAP (clone GF-01) Monoclonal antibody (Product # MA1-19170).



GFAP Antibody (MA1-19170) in IHC (P)
Immunohistochemistry staining of human cerebellum (paraffin-embedded sections) with anti-GFAP (clone GF-01) Monoclonal antibody (Product # MA1-19170).

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PubMed References For GFAP Monoclonal Antibody (GF-01)

1 Immunocytochemistry References

Species / Dilution	Summary
	MA1-19170 was used in immunocytochemistry to develop an immunofluorescence assay for monitoring human CMV infection
Human / 1:1,000	Acta biochimica et biophysica Sinica (2012; 44: 597) "A faster immunofluorescence assay for tracking infection progress of human cytomegalovirus." Author(s):Duan Y,Miao L,Ye H,Yang C,Fu B,Schwartz PH,Rayner S,Fortunato EA,Luo MH PubMed Article URL: http://dx.doi.org/10.1093/abbs/gms041

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