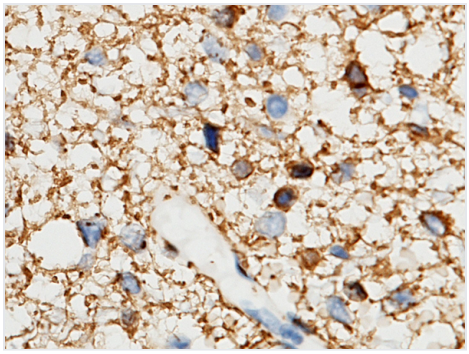
GFAP Antibody – Rabbit Polyclonal

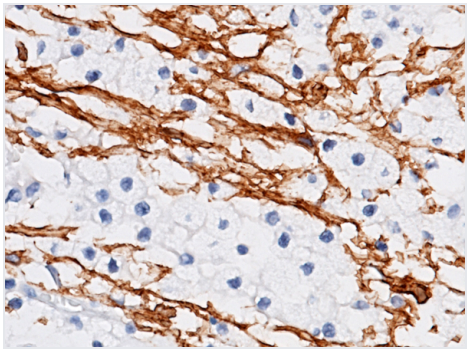
PRODUCT OVERVIEW

Product Name	GFAP, Polyclonal Antibody
Full Product Name	Anti-GFAP Antibody, Rabbit Polyclonal
Product Gene Name	anti-GFAP antibody
Product Synonym Names	GFAP Antibody, Rabbit PAb, Antigen Affinity Purified; glial fibrillary acidic protein; Anti-ALXDRD Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human Predicted to React with: Rat (Species predicted to react based on 100% sequence homology)
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human GFAP
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	49,880 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (42982994..42992920, complement). Location: 17q21
OMIM	137780
3D Structure	ModBase 3D Structure for P14136
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human GFAP
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, a synthetic peptide corresponding to the C-terminus of the Human GFAP, and purified by antigen affinity chromatography.
Product Categories/Family for anti-GFAP antibody	Neuroinflammation
Applications Tested/Suitable for anti-GFAP antibody	Immunohistochemistry-Paraffin (IHC-P)
Application Notes for anti-GFAP antibody	IHC-P: 1:500-1:2000
Related Product Information for anti-GFAP antibody	GFAP is a cell-specific marker which belongs to the intermediate filament family. It can distinguish astrocytes from other glial cells during development. GFAP is expressed in cells lacking fibronectin. It is a type III intermediate filaments protein which contains three domains: the head, rod and tail domains. GFAP functions in many important entral nervous system (CNS) processes, including cell communication and the functioning of the blood brain barrier. Improper GFAP regulation can cause multiple disorders. Defects in GFAP is related to Alexander disease which 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.
Product References and Citations for anti-GFAP antibody	Buniatian G, et al., 1998, Biology of the cell. 90(1): 53-61.Chen YS, et al., 2011, Experimental Cell Research. 317(16): 2252-66.Isaacs A, et al., 1998, Genomics. 51(1): 152-4.

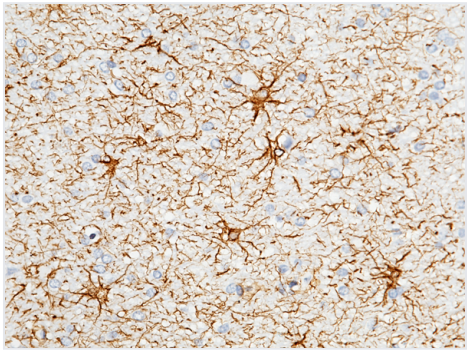
Other Notes	Small volumes of anti-GFAP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GFAP purchase	MBS8100137 is an antibody targeting GFAP. Also known as Anti-GFAP Antibody, Rabbit Polyclonal. Reactive in Human Predicted to React with: Rat (Species predicted to react based on 100% sequence homology). Host: Rabbit.



Immunohistochemistry (IHC) of anti-GFAP antibody
Immunochemical staining of human GFAP in human glioma with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



Immunohistochemistry (IHC) of anti-GFAP antibody
Immunochemical staining of human GFAP in human clear cell tumors (brain) with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



Immunohistochemistry (IHC) of anti-GFAP antibody
Immunochemical staining of human GFAP in human brain with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GFAP. It may not necessarily be applicable to this product.

NCBI GI #	196115290
NCBI GeneID	2670
NCBI Accession #	NP_001124491.1
UniProt Primary Accession #	P14136
UniProt Secondary Accession #	Q53H98; Q5D055; Q6ZQS3; Q7Z5J6; Q7Z5J7; Q96KS4; Q96P18; Q9UFD0; B2RD44; D3DX59
UniProt Related Accession #	P14136
GenBank Nucleotide #	NM_001131019.2
NCBI Official Full Name	glial fibrillary acidic protein isoform 2
NCBI Official Synonym Full Names	glial fibrillary acidic protein
NCBI Official Symbol	GFAP
UniProt Protein Name	Glial fibrillary acidic protein
Protein Family	Glial fibrillary acidic protein

UniProt Gene Name	GFAP
UniProt Synonym Gene Names	GFAP
UniProt Entry Name	GFAP_HUMAN
NCBI Protein Information	glial fibrillary acidic protein
NCBI Summary for GFAP	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]
UniProt Comments for GFAP	GFAP: a class-III intermediate filament protein. A cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. An additional transcript variant isoform has been described, but its full length sequence has not been determined. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 17q21 Cellular Component: membrane; cytoplasm; intermediate filament; cytosol Molecular Function: integrin binding; structural constituent of cytoskeleton; kinase binding Biological Process: Bergmann glial cell differentiation; extracellular matrix organization and biogenesis; regulation of neurotransmitter uptake; response to wounding; neurite regeneration; intermediate filament organization; astrocyte development Disease: Alexander Disease
Research Articles on GFAP	**1.** Serum GFAP levels in a control cohort are not significantly different compared to neuromyelitis optica patients.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-rat-antibody/gfap/8100137