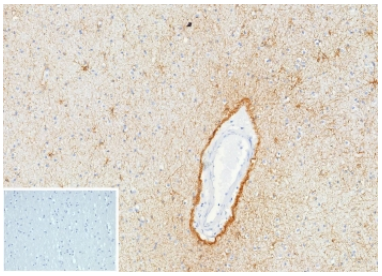
GFAP Antibody / Glial Fibrillary Acidic Protein [clone GFAP/9424] (V5715)

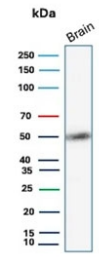
Catalog No.	Formulation	Size
V5715-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5715-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5715SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

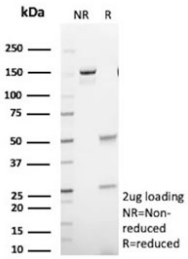
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	GFAP/9424
Purity	Protein G affinity
UniProt	P14136
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This GFAP antibody is available for research use only.



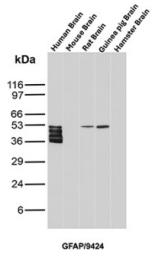
IHC staining of FFPE human brain tissue with GFAP antibody (clone GFAP/9424). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human brain tissue with GFAP antibody (clone GFAP/9424). Predicted molecular weight ~50 kDa.



SDS-PAGE analysis of purified, BSA-free GFAP antibody (clone GFAP/9424) as confirmation of integrity and purity.



GFAP Antibody Brain Tissue WB. Western blot analysis of human brain, mouse brain, rat brain, guinea pig brain, and hamster brain tissue lysates using GFAP Mouse Monoclonal Antibody clone GFAP/9424. Multiple closely migrating bands are detected between approximately 40-50 kDa in human brain lysate, with additional bands of similar molecular weight observed in rat and guinea pig brain samples, consistent with Glial fibrillary acidic protein / GFAP, a major astrocytic intermediate filament protein involved in maintenance of neural cytoskeletal organization. The stacked banding pattern in the human brain sample likely reflects a combination of GFAP isoforms and partial proteolytic processing products commonly encountered in brain tissue extracts.

Description

GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells. [UniProt]

Application Notes

Optimal dilution of the GFAP antibody should be determined by the researcher.

Immunogen

A recombinant full-length human GFAP protein was used as the immunogen for the GFAP antibody.

Storage

Aliquot the GFAP antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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