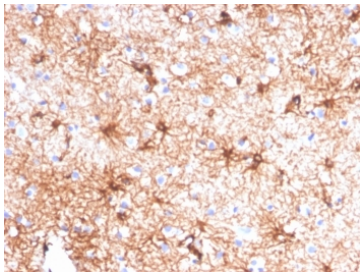
Glial Fibrillary Acidic Protein Antibody / GFAP [clone GFAP/4450] (V9403)

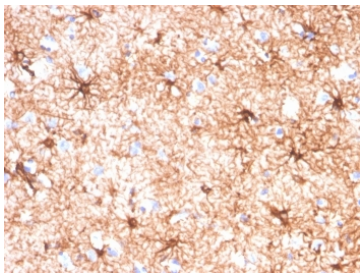
Catalog No.	Formulation	Size
V9403-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9403-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9403SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

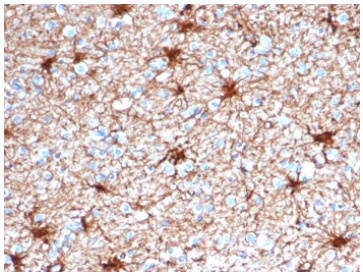
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Guinea pig, Hamster
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	GFAP/4450
Purity	Protein A/G affinity
UniProt	P14136
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml (Human) Western blot: 2-4ug/ml (Human/Mouse/Rat/Guinea pig/Hamster)
Limitations	This Glial Fibrillary Acidic Protein antibody is available for research use only.



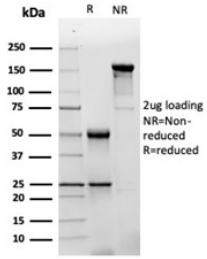
Glial Fibrillary Acidic Protein Antibody Cerebellum IHC. Immunohistochemistry staining of FFPE human cerebellum tissue with Glial Fibrillary Acidic Protein antibody (clone GFAP/4450). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



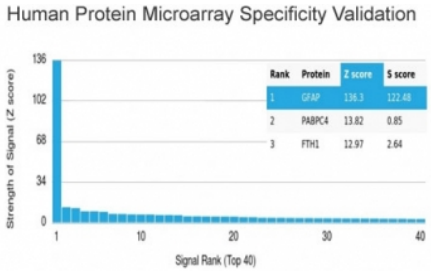
Glial Fibrillary Acidic Protein Antibody Human Cerebellum Tissue IHC. Immunohistochemistry staining of FFPE human cerebellum tissue with Glial Fibrillary Acidic Protein antibody (clone GFAP/4450). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



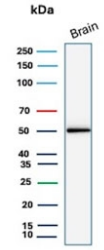
Glial Fibrillary Acidic Protein Antibody Cerebellum Immunohistochemistry. IHC staining of FFPE human cerebellum tissue with Glial Fibrillary Acidic Protein antibody (clone GFAP/4450). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



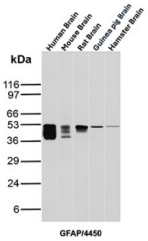
SDS-PAGE analysis of purified, BSA-free Glial Fibrillary Acidic Protein antibody (clone GFAP/4450) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Glial Fibrillary Acidic Protein antibody (clone GFAP/4450). These results demonstrate the foremost specificity of the GFAP/4450 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



Glial Fibrillary Acidic Protein Antibody Brain WB. Western blot testing of human brain tissue lysate with Glial Fibrillary Acidic Protein antibody. Predicted molecular weight ~50 kDa.



GFAP Antibody Brain Tissue WB. Western blot analysis of human brain, mouse brain, rat brain, guinea pig brain, and hamster brain tissue lysates using Glial fibrillary acidic protein Antibody clone GFAP/4450. A prominent band is detected at approximately 50 kDa across multiple mammalian brain samples, consistent with the predicted molecular weight of GFAP, a major astrocytic intermediate filament protein expressed throughout the central nervous system. Additional lower molecular weight bands observed primarily in human, mouse, and rat brain lysates likely represent GFAP isoforms and/or partial proteolytic processing products commonly detected in neural tissue extracts.

Description

GFAP is specifically found in astroglia. GFAP is a very popular marker for localizing benign astrocyte and neoplastic cells of glial origin in the central nervous system. Antibody to GFAP is useful in differentiating primary gliomas from metastatic lesions in the brain and for documenting astrocytic differentiation in tumors outside the CNS.

Application Notes

Optimal dilution of the Glial Fibrillary Acidic Protein antibody should be determined by the researcher.

Immunogen

Recombinant full-length human GFAP protein was used as the immunogen for the Glial Fibrillary Acidic Protein antibody.

Storage

Aliquot the Glial Fibrillary Acidic Protein antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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