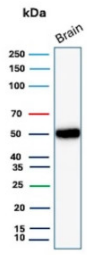
GFAP Antibody / Glial Fibrillary Acidic Protein [clone GFAP/6884] (V4004)

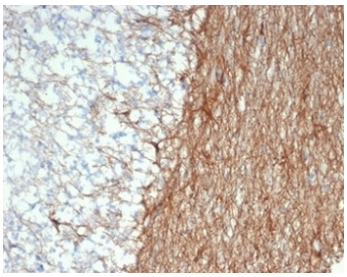
Catalog No.	Formulation	Size
V4004-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4004-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4004SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

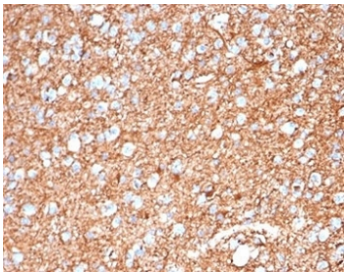
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	GFAP/6884
Purity	Protein A/G affinity
UniProt	P14136
Localization	Cytoplasm
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This GFAP antibody is available for research use only.



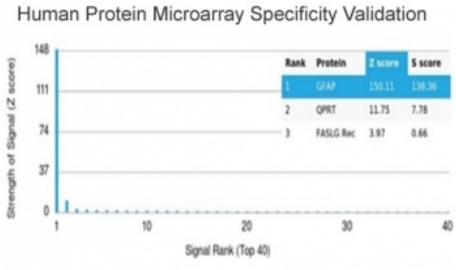
Western blot testing of human brain tissue lysate using GFAP antibody (clone GFAP/6884). Predicted molecular weight ~50 kDa.



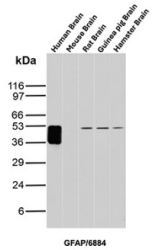
IHC staining of FFPE human cerebellum tissue with GFAP antibody (clone GFAP/6884). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human brain tissue with GFAP antibody (clone GFAP/6884). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using GFAP antibody (clone GFAP/6884). These results demonstrate the foremost specificity of the GFAP/6884 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.



GFAP Antibody Multi-Species Brain Tissue WB. Western blot analysis of human brain, mouse brain, rat brain, guinea pig brain, and hamster brain tissue lysates using GFAP Antibody clone GFAP/6884. A strong band is detected at approximately 50 kDa in human brain lysate, with corresponding bands also observed in rat, guinea pig, and hamster brain samples, consistent with the predicted molecular weight of Glial fibrillary acidic protein / GFAP, a principal astrocytic intermediate filament protein involved in maintenance of neural cytoskeletal architecture. Subtle lower molecular weight bands beneath the primary human brain signal likely represent GFAP isoforms and/or partial proteolytic processing products commonly observed in neural tissue lysates.

Description

This MAb recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins. 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 GFAP antibody should be determined by the researcher.

Immunogen

A portion of amino acids 150-250 from the 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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