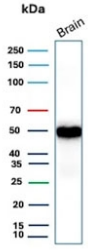
Recombinant GFAP Antibody / Glial Fibrillary Acidic Protein [clone rGFAP/9150] (V5483)

Catalog No.	Formulation	Size
V5483-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5483-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5483SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

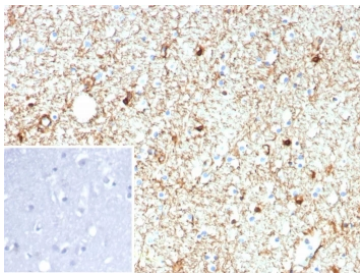
Recombinant | MOUSE MONOCLONAL

Bulk quote request

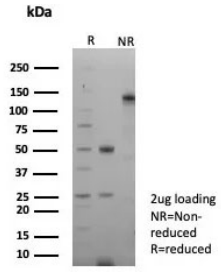
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rGFAP/9150
Purity	Protein A/G affinity
UniProt	P14136
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This recombinant GFAP antibody is available for research use only.



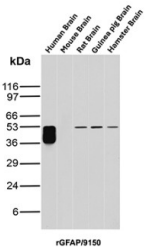
Western blot testing of human brain tissue lysate with recombinant GFAP antibody (clone rGFAP/9150). Predicted molecular weight ~50 kDa.



IHC staining of FFPE human brain tissue with recombinant GFAP antibody (clone rGFAP/9150). 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.



SDS-PAGE analysis of purified, BSA-free recombinant GFAP antibody (clone rGFAP/9150) 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 recombinant GFAP Antibody clone rGFAP/9150. 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 major astrocytic intermediate filament protein involved in maintenance of neural cytoskeletal architecture and central nervous system integrity. Minor 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 recombinant GFAP antibody should be determined by the researcher.

Immunogen

A recombinant fragment (within amino acids 100-300) of human Glial Fibrillary Acidic Protein protein was used as the immunogen for the recombinant GFAP antibody.

Storage

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