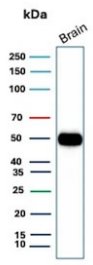
GFAP Antibody / Glial Fibrillary Acidic Protein [clone GFAP/8616R] (V4513)

Catalog No.	Formulation	Size
V4513-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4513-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4513SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

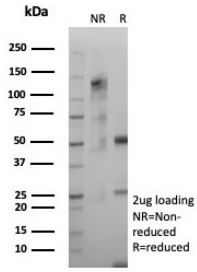
Recombinant RABBIT MONOCLONAL

Bulk quote request

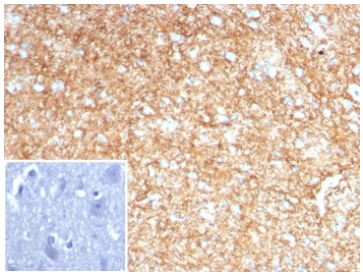
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	GFAP/8616R
Purity	Protein A/G affinity
UniProt	P14136
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT Western Blot : 2-4ug/ml
Limitations	This GFAP antibody is available for research use only.



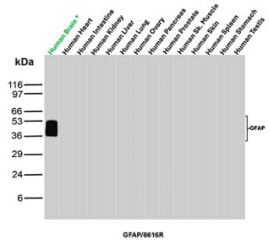
Western blot testing of human brain tissue with GFAP antibody. Predicted molecular weight ~50 kDa.



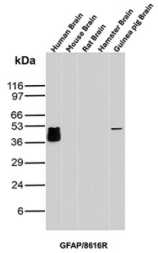
SDS-PAGE analysis of purified, BSA-free GFAP antibody (clone GFAP/8616R) as confirmation of integrity and purity.



IHC staining of FFPE human brain tissue with GFAP antibody (clone GFAP/8616R). 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.



GFAP Antibody Multi-Tissue WB. Western blot analysis of human brain, heart, intestine, kidney, liver, lung, ovary, pancreas, prostate, skeletal muscle, skin, spleen, stomach, and testis tissue lysates using GFAP Antibody clone GFAP/8616R. A distinct band is detected at approximately 50 kDa selectively in human brain lysate, consistent with the predicted molecular weight of Glial fibrillary acidic protein / GFAP, an astrocyte-associated intermediate filament protein enriched within central nervous system tissue. Subtle lower molecular weight signal broadening beneath the primary band likely reflects GFAP isoforms and/or partial proteolytic processing products commonly observed in neural tissue extracts.



GFAP Antibody Brain Tissue WB. Western blot analysis of human brain, mouse brain, rat brain, hamster brain, and guinea pig brain tissue lysates using GFAP Antibody clone GFAP/8616R. A strong band is detected at approximately 50 kDa in human brain lysate, with an additional band of similar molecular weight observed in guinea pig brain tissue, consistent with the predicted molecular weight of Glial fibrillary acidic protein / GFAP, a major astrocytic intermediate filament protein involved in maintenance of neural cytoskeletal organization and central nervous system integrity. Multiple faint lower molecular weight bands forming a subtle stacked pattern beneath the primary human brain signal likely represent GFAP isoforms and/or partial proteolytic processing products commonly observed 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 GFAP antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 150-350) from the human 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.