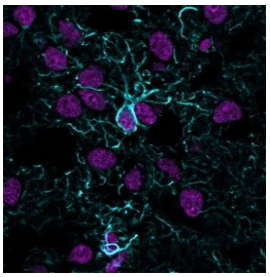
Recombinant GFAP Antibody / Rabbit Monoclonal [clone ASTRO/1974R] (V3588)

Catalog No.	Formulation	Size
V3588-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3588-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3588SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3588IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

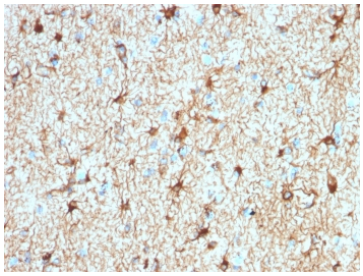
Recombinant RABBIT MONOCLONAL

Bulk quote request

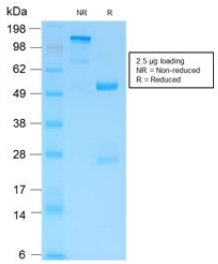
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Hamster, Guinea pig
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	ASTRO/1974R
Purity	Protein A affinity chromatography
UniProt	P14136
Localization	Cytoplasmic
Applications	Flow cytometry: 1-2ug/million cells Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Immunofluorescence: 1-2ug/ml Western blot: 2-4ug/ml (Human/Mouse/Rat/Hamster/Guinea pig)
Limitations	This recombinant GFAP antibody is available for research use only.



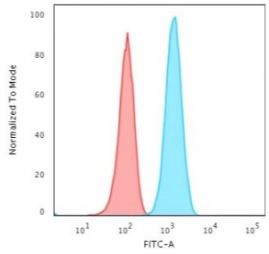
Immunofluorescent staining of frozen human cerebral cortex tissue with recombinant GFAP antibody (blue, clone ASTRO/1974R) and Histone H1 antibody (magenta, clone HH1/957).



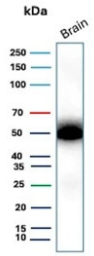
IHC testing of FFPE human cerebellum tissue with recombinant GFAP antibody (clone ASTRO/1974R). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



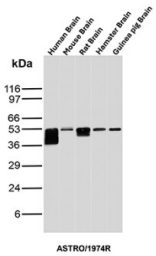
SDS-PAGE analysis of purified, BSA-free recombinant GFAP antibody (clone ASTRO/1974R) as confirmation of integrity and purity.



Flow cytometry testing of fixed human T98G cells with recombinant GFAP antibody (clone ASTRO/1974R); Red=isotype control, Blue= recombinant GFAP antibody.



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



GFAP Antibody Brain Tissue WB. Western blot analysis of human brain, mouse brain, rat brain, hamster brain, and guinea pig brain tissue lysates using recombinant GFAP Antibody clone ASTRO/1974R. Strong bands are detected at approximately 50 kDa across multiple mammalian 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. Subtle lower molecular weight signal broadening beneath the primary human brain band likely reflects GFAP isoforms and/or partial proteolytic processing products commonly observed in neural tissue extracts.

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

The optimal dilution of the recombinant GFAP antibody for each application should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

GFAP isolated from pig spinal cord was used as the immunogen for this recombinant GFAP antibody.

Storage

Store the recombinant GFAP antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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