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PRODUCT DATASHEET

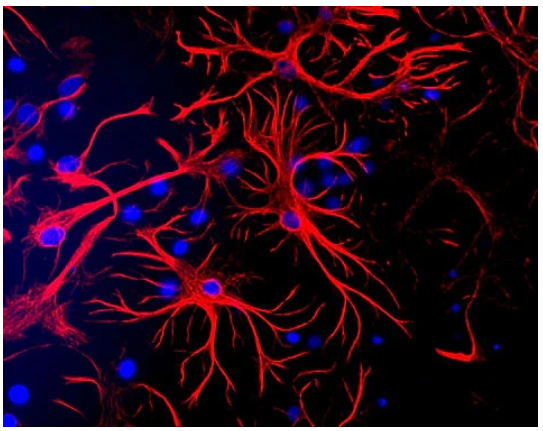
Anti-Glial Fibrillary Acidic Protein (GFAP) Antibody

Product Details

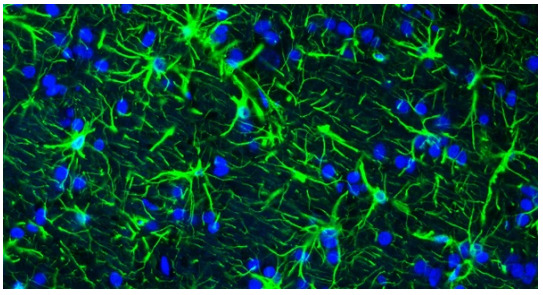
Available Variants	200 µL (SKU:GFAP)
Isotype	IgY
Gene Name	GFAP
Host Species	Chicken
Concentration	2 mg/mL (based on absorbance at 280 nm)
Format	IgY Fraction
Physical State	Liquid
Buffer	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS" pH 7.2) with bovine serum albumin (BSA, 0.5%) added to prevent absorption to the plastic and sodium azide (0.02%, w/v) added as a preservative
Production Notes	Chickens were immunized with recombinant GFAP (expressed in bacteria). After repeated injections, immune eggs were collected, the IgY fractions were purified from the yolks, and the IgY concentration adjusted to 20 mg/mL. This preparation was then diluted 1:10 with PBS containing bovine serum albumin as a carrier. Finally, the antibody preparation was filter-sterilized.
Applications	Flow, ICC, IHC, WB
Dilution Ranges	WB: 1:1000-1:2000 IHC: 1:500-1:1000 ICC: 1:500-1:1000
Species Reactivity	Human, Mouse, Non-Human Primate, Rat
Immunogen	Recombinant human GFAP expressed in Escherichia coli
Molecular Weight	50 kDa

Quality Control	Quality assurance analysis was performed using immunohistochemistry (at a dilution of 1:5000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution, Aves Labs Cat.# F-1005) as the secondary reagent.
Storage	Store at 4°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile. For longer term storage, aliquot and freeze to avoid freeze-thaw of the antibody.
Antibody Registry ID	AB_2313547
Country of Origin	United States
Shipping	Ice packs
Expiration	12 months from receipt of product
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

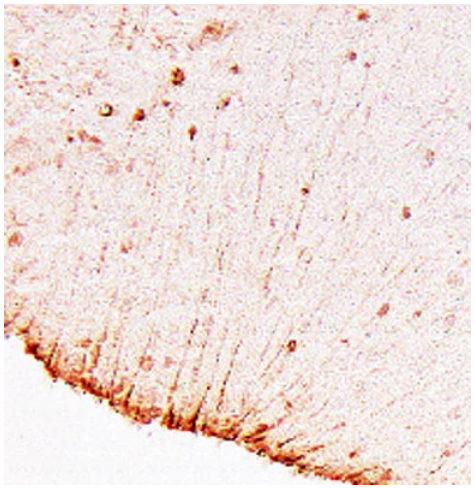
Product Images



Glial Fibrillary Acidic Protein (GFAP) immunostaining (red) of mixed cortical mouse brain cultures (1:500 dilution). Secondary antibody is Texas Red goat anti-chicken IgY. The blue is DAPI staining of nuclei of all cells, including non-GFAP-positive cells. Photo courtesy of Dr. Gerry Shaw, Univ. Florida.



Representative section of formalin fixed, paraffin-embedded rat brain showing staining of GFAP. The sections were stained with Aves Labs anti-GFAP antibody (visualized in green) (Cat. GFAP) at 1:500 dilution. The stained sections were mounted with Antibodies Incorporated FluoroshieldTM with DAPI and DABCO mounting medium (Cat. AR-6505). DAPI nuclear stain (blue) shows cell nuclei. Anti-GFAP specifically stains the astrocytes in the rat brain.



Immunohistochemical staining of GFAP-positive radial glial cells in the periventricular zone of an e16 mouse brain. Section was a vibratome, thick section (20 um) using a lightly-fixed (2% paraformaldehyde) mouse brain. 1˚ antibody (GFAP) was used at 1:500 dilution; 2˚ antibody (HRP-goat anti-chicken IgY) was used at 1:500 dilution.