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PRODUCT DATASHEET

Anti-GFAP Recombinant Chicken Chimeric mAb

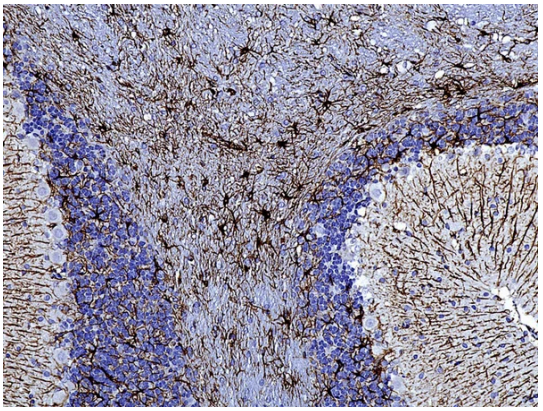
avēslabs KO Validated

Product Details

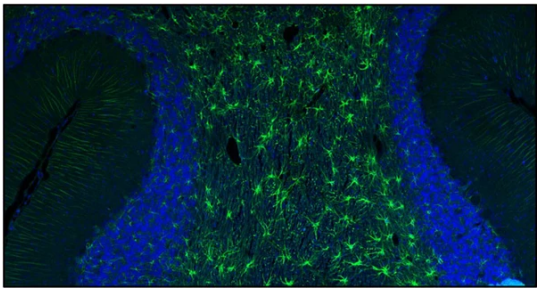
Available Variants	100 µL (SKU:78-240) 20 µL (SKU:78-240-020)
Conjugate	Unconjugated
Isotype	IgY
Clone	N206A/8
Gene Name	GFAP
Host Species	Chicken
Concentration	1 mg/mL
Format	Purified by affinity chromatography
Physical State	Liquid
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Production Notes	This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of our NeuroMab clone N206A/8 with chicken IgY heavy and light constant regions. As such this antibody retains the same binding performance as the original clone N206A/8 but can be detected using standard anti-chicken secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media.
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:500 ICC: 1:500
Species Reactivity	Drosophila, Guinea Pig, Human, Mouse, Polar Bear, Rat

Immunogen	Synthetic peptide amino acids 411-422 (KTVEMRDGEVIK) of human GFAP (accession number P14136)
Specificity	Cross-reacts with GFAP-R416W and other GFAP mutant proteins. Does not cross-react with other proteins (based on KO validation results).
Molecular Weight	50 kDa
Quality Control	Each new lot of antibody is quality control tested by Western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
UniProt ID	P14136
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

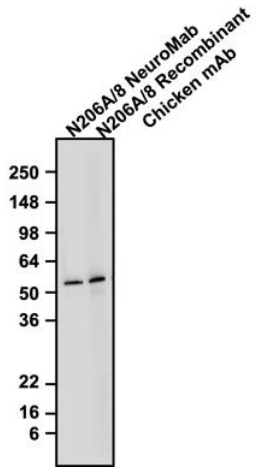
Product Images



Representative image of 4% paraformaldehyde fixed free-floating rat cerebellum sections stained with Aves Labs anti-GFAP recombinant chicken monoclonal antibody (Cat. 78-240) at 1:1000 dilution. Anti-GFAP specifically stains the astrocytes in the rat brain. Magnification 200X. Image courtesy of EnCor Biotechnology.



Representative section of formalin fixed, paraffin-embedded rat brain cerebellum region showing staining of GFAP with Aves Labs anti-GFAP recombinant chicken monoclonal antibody (visualized in green) (Cat. 78-240) 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. Magnification 100X.



Western blotting of rat brain homogenate with Antibodies Incorporated anti-GFAP mouse mAb (Cat. 75-240) and Aves Labs anti-GFAP recombinant chicken Mab (Cat. 78-240) antibodies (10 µg/ml). The mouse mAb and chicken mAb were detected with anti-mouse-HRP and anti-chicken-HRP, respectively. Recombinant chicken anti-GFAP mAb recognizes endogenous GFAP with similar sensitivity as the anti-GFAP NeuroMab in the rat brain homogenate at ~50 kDa.