

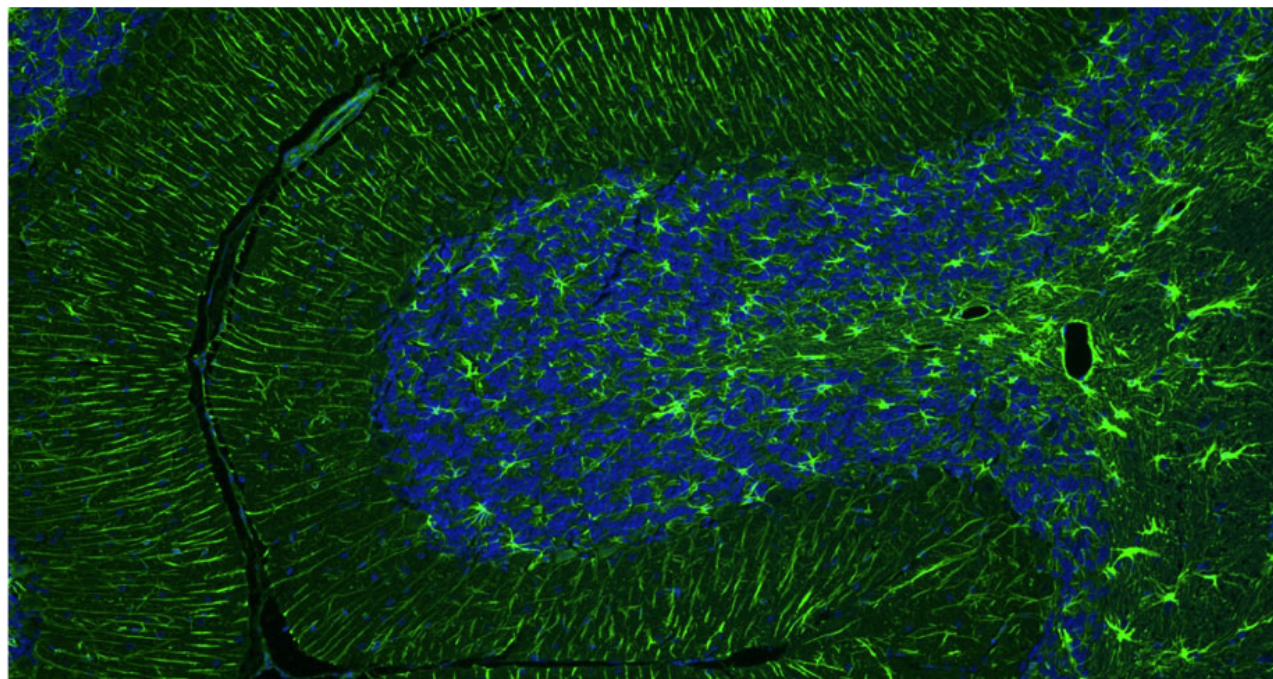
PRODUCT DATASHEET

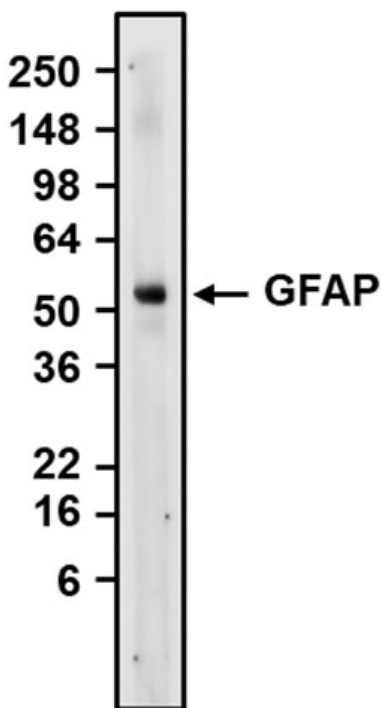
Anti-GFAP (N206A/8) Recombinant Guinea Pig Chimeric mAb

Overview

Catalog #	74-240 (100 µL size) or 74-240-020 (20 µL size)
Conjugate	Unconjugated
Isotype	IgG
Clone Number	N206A/8
Concentration	1 mg/mL
Host Species	Guinea Pig Recombinant
Format	Purified by affinity chromatography
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Applications	ELISA, ICC, IHC, WB
Species Reactivity	Drosophila, Guinea Pig, Human, Mouse, Polar Bear, and Rat
Immunogen	Synthetic peptide amino acids 411-422 (KTVEMRDGEVIK) of human GFAP (accession number P14136)
Molecular Weight	50 kDa

Figures





Immunohistochemistry for detection of GFAP in adult rat cerebellum. Tissue was Western blot detection of GFAP. 10-20% Tris-Glycine Gel fixed with 4% paraformaldehyde and paraffin embedded. Heat induced antigen was loaded with rat brain membrane fraction. Proteins were retrieval was performed using citrate buffer (Cat. AR-6544) and then blocked with transferred to PVDF membrane and blocked with 5% non- Immuno Protein Blocking Solution with Goat Serum (AR-6591). The anti-GFAP fat milk powder. Anti-GFAP antibody was incubated with antibody was incubated with the sample at a dilution of 1:250 at 4C overnight. After sample at a concentration of 1 ug/ml and then detected via washing with PBST, the sections were stained using goat anti-guinea pig 488 chemiluminescence (10 min) using a Goat Anti-Guinea Pig secondary antibody (green). DAPI nuclear stain (blue) shows cell nuclei. Anti- H+L, HRP conjugated secondary antibody. Anti-GFAP GFAP specifically stains the astrocytes in the rat brain cerebellum. recognizes endogenous GFAP in the rat brain membrane fraction at the expected molecular weight of ~50 kDa. Immunohistochemistry for detection of GFAP in adult rat hippocampus. Tissue was fixed with 4% paraformaldehyde and paraffin embedded. Heat induced antigen retrieval was performed using citrate buffer (Cat. AR-6544) and then blocked with Immuno Protein Blocking Solution with Goat Serum (AR-6591). The anti-GFAP antibody (Cat.74-240) was incubated with the sample at a dilution of 1:250 at 4C overnight. After washing with PBST, the sections were stained using goat anti-guinea pig 488 secondary antibody (green). DAPI nuclear stain (blue) shows cell nuclei. Anti-GFAP specifically stains the astrocytes in the rat brain hippocampus.

Details

Target Description

Glial fibrillary acidic protein (GFAP) is an intermediate filament with many different isoforms, and acts as a structural protein in the cytoskeleton. It is expressed in astrocytes in brain and is often used as an astrocyte marker. GFAP is believed to be involved in many CNS processes including cell communication and mitosis. GFAP has been found to be involved in Alexander disease and Wernicke's encephalopathy.

Specificity

Cross-reacts with GFAP-R416W and other GFAP mutant proteins. Does not cross-react with other proteins (based on KO validation results).

Purification Method

This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of our NeuroMab clone N206A/8 with guinea pig IgG 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-guinea pig secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media.

Quality Control Tests

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 $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.

Our Guarantee

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

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