

Anti-GFAP R416WT [N206B/9] Bulk Size Ab02152-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Variable region sequences were determined by Dr. James Trimmer at the University of California, Davis, as supported by National Institutes of Health BRAIN Initiative award U24 NS109113.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: N206B/9

Alternative Name(s) of Target: N206B/9R; Glial fibrillary acidic protein; GFAP

UniProt Accession Number of Target Protein: P14136

Published Application(s): ICC, WB, IHC

Published Species Reactivity: Rat, Human, Mouse

Immunogen: This antibody was raised by immunising BALB/c mice with a synthetic peptide amino acids 411-422 (KTVEMRDGEVIK) of human GFAP.

Specificity: This antibody is specific for GFAP and does not cross-react with GFAP-R416W or other proteins. GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.

Application Notes: This antibody is recommended for the detection and analysis of GFAP R416WT by western blot, immunocytochemistry and immunohistochemistry. For instance, the mouse version of this antibody was used to detect GFAP R416WT by western blot in brain samples from adult rat and GFAP wildtype, knockout and R416W KI mice. Furthermore it was used to detect GFAP R416WT by immunocytochemistry in GFAP WT and KO mouse hippocampus.

Antibody First Published in: Andrews et al. A toolbox of IgG subclass-switched recombinant monoclonal antibodies for enhanced multiplex immunolabeling of brain eLife. 2019; 8: e43322. [PMID:30667360](#)

Note on publication: This article describes the generation of a library of recombinant monoclonal antibodies (R-mAbs) from a pool of mAb-producing hybridomas for neuroscience research.

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.