

Anti-GABA(B)R [N93A/49.2] Bulk Size Ab02260-2.3-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.

Isotype and Format: Mouse IgG2a, Fc Silent™, Kappa

Clone Number: N93A/49.2

Alternative Name(s) of Target: N93A/49.2R; Gamma-aminobutyric acid type B receptor subunit 1; Gabbr1; GABA-B receptor 1; GABA-B-R1; GABA-BR1; GABABR1; Gb1

UniProt Accession Number of Target Protein: Q9Z0U4

Published Application(s): IP, PLA, IF

Published Species Reactivity: Rat, Human, Mouse

Immunogen: This antibody was raised by immunising BALB/c mice with a fusion protein of amino acids 873-977 (cytoplasmic C-terminus) of rat GABABR1.

Specificity: This antibody is specific for amino acids 873-977 (cytoplasmic C-terminus) of rat GABABR1. GABABR1 is a component of a heterodimeric G-protein coupled receptor for GABA, formed by GABBR1 and GABBR2. Within the heterodimeric GABA receptor, only GABBR1 seems to bind agonists, while GABBR2 mediates coupling to G proteins.

Application Notes: This antibody was used in a proximity ligation assay on HEK293 cells transiently transfected using Lipofectamine 2000 with cDNA plasmids expressing GABABR1-eYFP, GABABR2 and GIRK2a (Li et al, 2020; PMID:32111696). Immunofluorescence was preformed on the hippocampal slices of P7 male Wistar rats using this antibody (Wright et al, 2017; PMID:28450542). An immunoprecipitation was preformed with this antibody on lysates from hippocampal slices of P7 male Wistar rats (Wright et al, 2017; PMID:28450542). Immunofluorescence was preformed on the brain of Tg(Gng3-GFP)- HK208Gsat and KI(Gng7-3-IRES-GFP) mice (Schwindinger et al, 2012; PMID:22207761).

Antibody First Published in: Schwindinger et al. Synergistic roles for G-protein $\gamma 3$ and $\gamma 7$ subtypes in seizure susceptibility as revealed in double knock-out mice J Biol Chem. 2012 Mar 2;287(10):7121-33.

[PMID:22207761](#)

Note on publication: A gene targeting approach to determine whether the closely related $\gamma(3)$ and $\gamma(7)$ subunits can perform functionally interchangeable roles in mice was used.

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.