SANTA CRUZ BIOTECHNOLOGY, INC.

GABARAP (C-19): sc-9190



BACKGROUND

In the central nervous system GABA functions as the main inhibitory transmitter by increasing a Cl-conductance that inhibits neuronal firing. GABA has been shown to activate both ionotropic (GABA_A) and metabotropic (GABA_B) receptors as well as a third class of receptors called GABA_C. In addition to GABA receptors, several proteins have been identified as regulators of GABA function, including GAD65, GAD67, GABA transporters and GABARAP (GABA_A receptor-associated protein). GABARAP associates with GABA_A Ry2 to link GABA_A receptors to the cytoskeleton. The GABARAP protein sequence is similar to light chain-3 of microtubule-associated proteins (MAPs), suggesting that it may be a type of MAP or a component of a MAP complex.

CHROMOSOMAL LOCATION

Genetic locus: GABARAP (human) mapping to 17p13.1, GABARAPL1 (human) mapping to12p13.2; Gabarap (mouse) mapping to 11 B3, Gabarapl1 (mouse) mapping to 6F3.

SOURCE

GABARAP (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GABARAP of human origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9190 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

GABARAP (C-19) is recommended for detection of GABARAP and GABARAPL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

GABARAP (C-19) is also recommended for detection of GABARAP and GABARAPL1 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of GABARAP: 14 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



GABARAP (C-19): sc-9190. Western blot analysis of human recombinant GABARAP fusion protein.

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SELECT PRODUCT CITATIONS

- Mansuy, V., et al. 2004. GEC1, a protein related to GABARAP, interacts with tubulin and GABA_A receptor. Biochem. Biophys. Res. Commun. 325: 639-648.
- leguchi, K., et al. 2007. Role of the guanine nucleotide exchange factor OST in negative regulation of receptor endocytosis by the small GTPase Rac 1. J. Biol. Chem. 282: 23296-23305.
- Roberts, S.S., et al. 2009. GABA receptor expression in benign and malignant thyroid tumors. Pathol. Oncol. Res. 15: 645-650.
- Baba, H., et al. 2009. Autophagy-mediated stress response in motor neuron after transient ischemia in rabbits. J. Vasc. Surg. 50: 381-387.

MONOS Satisfation Guaranteed

Try **GABARAP (E-8):** sc-377300, our highly recommended monoclonal aternative to GABARAP (C-19).