BACKGROUND

In the central nervous system inhibitory neurotransmission is primarily achieved through activation of receptors for γ-aminobutyric acid (GABA). The GABA receptor type C (GABAC) is a ligand-gated ion channel with pharmacological properties distinct from the GABAA receptor. GABAA and GABAC receptors form ligand-gated chloride channels. Retinal γ-aminobutyric acid type C (GABAC) receptors consist of Rho subunits. Mouse Rho2 message does not appear until P9, peaks at P15 and remains at this level through adulthood. Picrotoxin binds to the GABAC receptor in both channel open and closed states.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: GABRR2 (human) mapping to 6q15; Gabrr2 (mouse) mapping to 4 A5.

SOURCE

GABAC Rρ2 (M-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of GABA C Rρ2 of mouse 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-21343 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

PROTOCOLS

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

APPLICATIONS

GABAC Rρ2 (M-18) is recommended for detection of GABA C Rρ2 of mouse, rat and, to a lesser extent, 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).

Suitable for use as control antibody for GABA C Rρ2 siRNA (h): sc-105385, GABA C Rρ2 siRNA (m): sc-145302, GABA C Rρ2 shRNA Plasmid (h): sc-105385-SH, GABA C Rρ2 shRNA Plasmid (m): sc-145302-SH, GABA C Rρ2 shRNA (h) Lentiviral Particles: sc-105385-V and GABA C Rρ2 shRNA (m) Lentiviral Particles: sc-145302-V.

Molecular Weight of GABA C Rρ2: 50 kDa.

Positive Controls: H4 cell lysate: sc-2408, Y79 cell lysate: sc-2240 or mouse brain extract: sc-2253.

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-2030 (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

SELECT PRODUCT CITATIONS


RESEARCH USE

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