



GPCR2037 (C-20): sc-48519

BACKGROUND

GPCR2037 (also known as Galanin-receptor like, GalRL, PGR7, nGPCR-2037 and GPCR151) is a G protein-coupled receptor that undergoes weak activation by Galanin and is most abundant in the central nervous system (CNS), where it appears to be critical for development. During embryonal development the expression of GPCR2037 is widespread in the nervous system (dorsal thalamus, striatum, locus coeruleus and hindbrain nuclei). GPCR2037 in the CNS of 7- and 15-day-old mouse embryos can localize to the habenular complex. Low levels of GPCR2037 are detectable in testis, liver, kidney and stomach. In addition to GPCR2037, Galanin mediates its effects through receptor subtypes GALR1, 2 and 3. Galanin ligand exerts anxiolytic actions via GALR receptors under conditions of high stress. Galanin coexists with norepinephrine and serotonin in neural systems that mediate emotion.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPR126 (human) mapping to 6q24.1; Gpr126 (mouse) mapping to 10 A2.

RESEARCH USE

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

SOURCE

GPCR2037 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GPCR2037 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-48519 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPCR2037 (C-20) is recommended for detection of GPCR2037 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 GPCR2037 siRNA (h): sc-60719 and GPCR2037 siRNA (m): sc-60720.

Molecular Weight of GPCR2037: 47 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) 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.

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.