Goat polyclonal antibody to GALR2

Catalog Number: NB100-57081

Background: Galanin is an important neuromodulator present in the brain, gastrointestinal system, and hypothalamic-pituitary axis. It is a 30-amino acid non-C-terminally amidated peptide that potently stimulates growth hormone secretion, inhibits cardiac vagal slowing of heart rate, abolishes sinus arrhythmia, and inhibits postprandial gastrointestinal motility. The actions of galanin are mediated through interaction with specific membrane receptors that are members of the 7-transmembrane family of G protein-coupled receptors. GALR2 interacts with the N-terminal residues of the galanin peptide. The primary signaling mechanism for GALR2 is through the phospholipase C/protein kinase C pathway (via Gq), in contrast to GALR1, which communicates its intracellular signal by inhibition of adenyl cyclase through Gi. However, it has been demonstrated that GALR2 couples efficiently to both the Gq and Gi proteins to simultaneously activate 2 independent signal transduction pathways.

Alternate Names: anti-GALR2 antibody, anti-GALR2 antibody, anti-GALR2 antibody, anti-galanin receptor 2 antibody, anti-GALNR2 antibody, anti-MGC125983 antibody, anti-MGC125984 antibody, anti-GALR2 antibody, anti-galanin receptor 2 antibody, anti-GALNR2 antibody, anti-MGC125983 antibody, anti-MGC125984 antibody

Host: Goat

Immunogen: Synthetic peptide, C-RYPLHSRELRTPRN, representing the internal region of the human protein according to NP_003848.1

Isotype: IgG

Epitope: RYPLHSRELRTPRN

Species Reactivity: Human. Other species not tested.

Homology: Human, Mouse, Rat, Dog

Uses: Peptide ELISA: antibody detection limit dilution 1:4,000. Western Blot: Approx 40kDa band observed in Human Heart lysates (calculated MW of 41.7kDa according to NP_003848.1). Recommended concentration: 0.3-1ug/ml.

* Other applications have not been tested.

Dilutions: Suggested working dilutions *

ELISA, Western Blot

* Investigator should determine optimal working dilutions.

Positive Controls: Human Heart lysate

Packaging: 0.1 mg of antigen affinity purified goat antisera

Concentration: 0.5 mg/ml

Buffer: Tris-saline [pH7.3] with 0.5% BSA

Preservative: 0.02% sodium azide

Storage: Aliquot and store at -20 degrees C. Minimize freezing and thawing.
Notes: Other Gene ID: 14428 (mouse); 29234 (rat);

Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.


Gene Id: 8811

Image(s)

NB100-57081 (0.3µg/ml) staining of Human Heart lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.