

Relaxin Receptor 4 (H-90): sc-67239

BACKGROUND

G protein-coupled receptors (GPRs) are a protein family of transmembrane receptors that transmit an extracellular signal (ligand binding) into an intracellular signal (G protein activation). GPR signaling is an evolutionarily ancient mechanism used by all eukaryotes to sense environmental stimuli and mediate cell-cell communication. All of the receptors have seven membrane-spanning domains and the extracellular parts of the receptor can be glycosylated. These extracellular loops also contain two highly conserved cysteine residues which create disulfide bonds to stabilize the receptor structure. Relaxin Receptor 4, also known as Relaxin/insulin-like family peptide receptor 4, RXFP4, RLN3R2, GPCR142 or GPR100, is a G protein-coupled receptor that binds Relaxin 3 and is specifically expressed in peripheral tissues, particularly in the colon.

REFERENCES

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2. Two new fluoroquinolones. 1992. *Med. Lett. Drugs Ther.* 34: 58-60.
3. Menoret, A., et al. 1994. Expression of the 100 kDa glucose-regulated protein (GRP100/endoplasmic) is associated with tumorigenicity in a model of rat colon adenocarcinoma. *Int. J. Cancer* 56: 400-405.
4. Chen, J., et al. 2004. Pharmacological characterization of relaxin-3/INSL7 receptors GPCR135 and GPCR142 from different mammalian species. *J. Pharmacol. Exp. Ther.* 312: 83-95.
5. Liu, C., et al. 2004. INSL5 is a high affinity specific agonist for GPCR142 (GPR100). *J. Biol. Chem.* 280: 292-300.
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CHROMOSOMAL LOCATION

Genetic locus: RLN3R2 (human) mapping to 1q22; Rln3r2 (mouse) mapping to 3 F1.

SOURCE

Relaxin Receptor 4 (H-90) is a rabbit polyclonal antibody raised against amino acids 1-90 mapping at the N-terminus of Relaxin Receptor 4 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.

STORAGE

Store at 4° C, **DO 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.

APPLICATIONS

Relaxin Receptor 4 (H-90) is recommended for detection of Relaxin Receptor 4 of human and, to a lesser extent, mouse and rat 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).

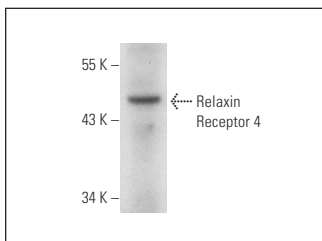
Suitable for use as control antibody for Relaxin Receptor 4 siRNA (h): sc-60727, Relaxin Receptor 4 siRNA (m): sc-60728, Relaxin Receptor 4 shRNA Plasmid (h): sc-60727-SH, Relaxin Receptor 4 shRNA Plasmid (m): sc-60728-SH, Relaxin Receptor 4 shRNA (h) Lentiviral Particles: sc-60727-V and Relaxin Receptor 4 shRNA (m) Lentiviral Particles: sc-60728-V.

Molecular Weight of Relaxin Receptor 4: 41 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Relaxin Receptor 4 (H-90): sc-67239. Western blot analysis of Relaxin Receptor 4 expression in mouse brain tissue extract.

PROTOCOLS

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