SANTA CRUZ BIOTECHNOLOGY, INC.

Relaxin Receptor 3 (C-15): sc-47004

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Relaxin Receptor 3 (also known as Relaxin/insulin-like family peptide receptor 3, RXFP3, RLN3R1, GPCR135 and SALPR) is a G protein-coupled receptor that binds Relaxin 3 and influences differentiation and maintenance of the nervous system. Relaxin Receptor 3 shares sequence similarity with Somatostatin receptors and Angiotensin receptors. It mediates central processing of sensory signals in the rat and is thought to be a modulator of stress responses. Relaxin Receptor 3 is present in the brain, with highest expression in substantia nigra and pituitary, followed by hippocampus, spinal cord, amygdala, caudate nucleus and corpus callosum, and low level expression in cerebellum. In peripheral tissues there are high levels in adrenal glands and low levels in pancreas, salivery gland, placenta, mammary gland and testis.

CHROMOSOMAL LOCATION

Genetic locus: RXFP3 (human) mapping to 5p13.2; Rxfp3 (mouse) mapping to 15 A1.

SOURCE

Relaxin Receptor 3 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Relaxin Receptor 3 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-47004 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.

APPLICATIONS

Relaxin Receptor 3 (C-15) is recommended for detection of Relaxin Receptor 3 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Relaxin Receptor 3 (C-15) is also recommended for detection of Relaxin Receptor 3 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Relaxin Receptor 3 siRNA (h): sc-60717, Relaxin Receptor 3 siRNA (m): sc-60718, Relaxin Receptor 3 shRNA Plasmid (h): sc-60717-SH, Relaxin Receptor 3 shRNA Plasmid (m): sc-60718-SH, Relaxin Receptor 3 shRNA (h) Lentiviral Particles: sc-60717-V and Relaxin Receptor 3 shRNA (m) Lentiviral Particles: sc-60718-V.

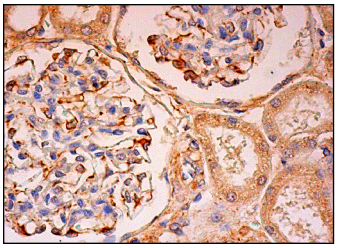
Molecular Weight of Relaxin Receptor 3: 52 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Relaxin Receptor 3 (C-15): sc-47004. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing membrane staining of cells in glomeruli and cytoplasmic staining of cells in tubules.

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.

MONOS Satisfaction Guaranteed

Try **Relaxin Receptor 3 (D-10): sc-377365**, our highly recommended monoclonal alternative to Relaxin Receptor 3 (C-15).