

Relaxin 1 (FL-185): sc-20652

BACKGROUND

Relaxin 1 (also referred to as Relaxin or RLXH1) is a peptide hormone produced by the corpora lutea of the ovary during pregnancy in many mammalian species, including human. The secretion of the hormone into the blood stream just before parturition results in a marked softening and lengthening of the pubic symphysis and a softening of the cervix, which facilitates the birth process. By inhibiting uterine contractions, Relaxin 1 may influence the timing of parturition. Like Insulin, Relaxin 1 consists of two peptide chains, A and B, covalently linked by disulfide bonds. By further analogy to Insulin, the two peptides are synthesized as a single-chain precursor polypeptide with the B chain at the amino-terminus. The gene that encodes the human Relaxin 1 protein maps to chromosome 9. Relaxin 2, a related protein, is selectively expressed in the ovary during pregnancy. The gene that encodes the human Relaxin 2 protein also maps to chromosome 9.

REFERENCES

- Hudson, P., et al. 1981. Molecular cloning and characterization of cDNA sequences coding for rat Relaxin. *Nature* 291: 127-131.
- Hudson, P., et al. 1983. Structure of a genomic clone encoding biologically active human Relaxin. *Nature* 301: 628-631.

CHROMOSOMAL LOCATION

Genetic locus: RLN1 (human) mapping to 9p24.1.

SOURCE

Relaxin 1 (FL-185) is a rabbit polyclonal antibody raised against amino acids 1-185 representing full length Relaxin 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.

RESEARCH USE

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

APPLICATIONS

Relaxin 1 (FL-185) is recommended for detection of Relaxin 1 of 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 Relaxin 1 siRNA (h): sc-39720, Relaxin 1 shRNA Plasmid (h): sc-39720-SH and Relaxin 1 shRNA (h) Lentiviral Particles: sc-39720-V.

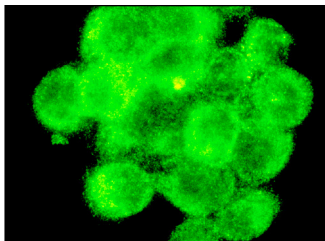
Molecular Weight of Relaxin 1 precursor: 18 kDa.

Molecular Weight of mature Relaxin 1: 6 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 (FL-185): sc-20652. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

- Benoit, A.M., et al. 2007. Expression of sperm protein 22 (SP22) in the rat ovary during different reproductive states. *Exp. Biol. Med.* 232: 910-920.
- Wilson, B.C., et al. 2009. Relaxin 3 and RXFP3 expression, and steroidogenic actions in the ovary of teleost fish. *Comp. Biochem. Physiol., Part A Mol. Integr. Physiol.* 153: 69-74.
- Feugang, J.M., et al. 2011. Examination of relaxin and its receptors expression in pig gametes and embryos. *Reprod. Biol. Endocrinol.* 9: 10.

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.

MONOS
Satisfaction
Guaranteed

Try **Relaxin 1 (willi): sc-57429**, our highly recommended monoclonal alternative to Relaxin 1 (FL-185).