

Relaxin 1 + Relaxin 2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58717

Specification

Relaxin 1 + Relaxin 2 Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Physical State Immunogen Epitope Specificity Isotype Purity affinity purified by Protein A	IHC-P, IHC-F, IF, E <u>P04808</u> Rat Rabbit Polyclonal 18 KDa Liquid KLH conjugated synthetic peptide derived from human Relaxin 1 and Relaxin 2 51-150/185 IgG
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
SIMILARITY	Belongs to the insulin family.
SUBUNIT	Heterodimer of a B chain and an A chain linked by two disulfide bonds.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Relaxins are known endocrine and autocrine/paracrine hormones, belonging to the insulin gene superfamily. In humans there are three non-allelic relaxin genes, RLN1, RLN2 and RLN3, where RLN1 and RLN2 share high sequence homology. The protein encoded by this gene is synthesized as a single-chain polypeptide but the active form consists of an A chain and a B chain linked by disulfide bonds. Relaxin is produced by the ovary, and targets the mammalian reproductive system to ripen the cervix, elongate the pubic symphysis and inhibit uterine contraction. It may have additional roles in enhancing sperm motility, regulating blood pressure, controlling heart rate and releasing oxytocin and vasopressin. [provided by RefSeq, Jan 2013]

Relaxin 1 + Relaxin 2 Polyclonal Antibody - Additional Information

Gene ID 6013

Other Names Prorelaxin H1, Relaxin B chain, Relaxin A chain, RLN1

Target/Specificity

Isoform 1 is expressed in the ovary during pregnancy. Also expressed in placenta, decidua and prostate. Isoform 2 is relatively abundant in placenta. It is in much lower abundance in the



prostate gland. Not detected in the ovary.

Dilution

IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Relaxin 1 + Relaxin 2 Polyclonal Antibody - Protein Information

Name RLN1

Function

Relaxin is an ovarian hormone that acts with estrogen to produce dilatation of the birth canal in many mammals. May be involved in remodeling of connective tissues during pregnancy, promoting growth of pubic ligaments and ripening of the cervix.

Cellular Location Secreted.

Tissue Location Prostate. Not expressed in placenta, decidua or ovary.

Relaxin 1 + Relaxin 2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Relaxin 1 + Relaxin 2 Polyclonal Antibody - Images