

Human Relaxin 2 ELISA Kit | RLN2 elisa kit

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CATALOG #
AAA263077

REACTIVITY
Human

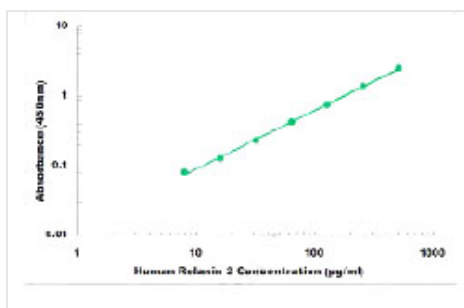
PRODUCT SYNONYMS

Relaxin 2; Human Relaxin 2 ELISA Kit; Pror relaxin H2; RLN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Relaxin 2 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Relaxin 2 proteins within the range of 7.8 pg/ml - 500 pg/ml.
Sequence Length	117
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<4 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for RLN2 elisa kit	Principle of the Assay: The Human Relaxin 2 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Relaxin 2 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Human Relaxin 2 coated on a 96-well plate. Standards and samples are pipetted into the wells and Relaxin 2 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Relaxin 2 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Relaxin 2 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: 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 active form of the protein encoded by this gene 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. Relaxin 2(RLN2) is a polypeptide hormone structurally related to insulin and insulin-like growth factors (IGFs). However it does not interact with insulin receptors and has decidedly different biological properties. Relaxin 2 activates LGR 7 and LGR 8 relaxin receptors, that belong to the leucine-rich repeat-containing (LRR), G protein-coupled receptors.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20143935
NCBI GeneID	6019
NCBI Accession #	NP_005050.2
NCBI GenBank Nucleotide #	NM_005059.3
UniProt Accession #	P04090; Q99936; Q9UCX3; Q9UQJ2; A0AVM0
Molecular Weight	12,883 Da
NCBI Official Full Name	prorelaxin H2 isoform 2
NCBI Official Synonym Full Names	relaxin 2
NCBI Official Symbol	RLN2
NCBI Official Synonym Symbols	H2; RLXH2; H2-RLX; bA12D24.1.1; bA12D24.1.2
NCBI Protein Information	prorelaxin H2
UniProt Protein Name	Prorelaxin H2
UniProt Gene Name	RLN2
UniProt Entry Name	REL2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.