

Human Relaxin 2 PicoKine ELISA Kit | RLN2 elisa kit

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CATALOG #
AAA11638

REACTIVITY
Human

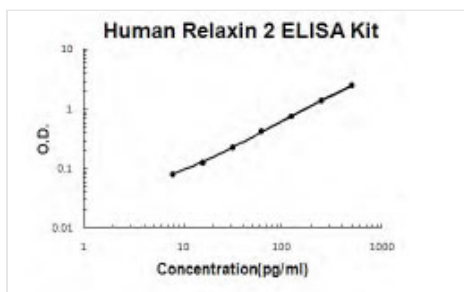
PRODUCT SYNONYMS

Relaxin 2 PicoKine; Human Relaxin 2 PicoKine ELISA Kit; Prorelaxin H2; H2; Relaxin H2; RelaxinH2; Relaxin-H2; Relaxin 2; Relaxin2; Relaxin-2; RLN 2; RLN2; RLN-2; Relaxin A chain; RLXH2; relaxin 2; RLN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human RLN2
Sequence Length	117
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, edta)
Detection Range	7.8pg/ml-500pg/ml
Sensitivity	<4pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess interassay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for RLN2 elisa kit

Principle of the Assay: The Picokine™ Human RLN2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human RLN2 with a 96-well strip plate that is pre-coated with antibody specific for RLN2. The detection antibody is a biotinylated antibody specific for RLN2. The kit contains recombinant Human RLN2 with immunogen: Expression system for standard: E.coli; Immunogen sequence: Q162-C185(A)&D25-S53(B). The kit is analytically validated with ready to use reagents. To measure Human RLN2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human RLN2 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human RLN2 in the sample.

Background/Introduction: Relaxins are known endocrine and autocrine/paracrine hormones, belonging to the insulin gene superfamily. In humans there are three nonallelic 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.

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.