

Human Relaxin 1 PicoKine ELISA Kit | RLN1 elisa kit

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CATALOG #
AAA46180

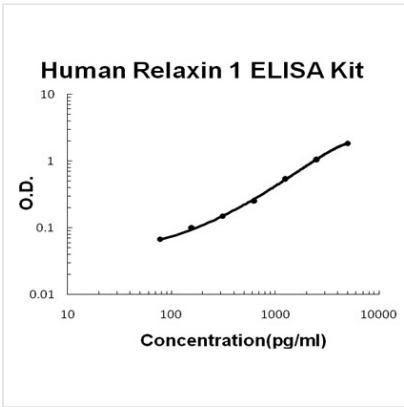
REACTIVITY
Human

PRODUCT SYNONYMS

Relaxin 1 PicoKine; Human Relaxin 1 PicoKine ELISA Kit; Prorelaxin 1; H1RLX; Preprorelaxin H1; PreprorelaxinH1; Prorelaxin; Prorelaxin H1; ProrelaxinH1; REL1_HUMAN; Relaxin 1 (H1); Relaxin A chain; Relaxin H1; Relaxin1; RelaxinH1; RLN 1; RLN1; RLX H1; RLXH 1; RLXH; relaxin 1; RLN1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Relaxin 1
Sequence Length	185
Assay Range	78pg/ml-5000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human Relaxin 1 in cell culture supernates, serum and plasma(heparin).
Immunogen	E Coli, R162-Cys185(A)&K26-S53(B)
Assay Procedure Step 1	Aliquot 0.1ml per well of 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml, 78pg/ml human Relaxin 1 standard solutions into the pre-coated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin) to each empty well. We recommend that each human Relaxin 1 standard solution and each sample is measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 596 1354 2415 688 1542 2229 Standard deviation 29.20 69.05 130.41 35.77 92.52 151.57 CV(%) 4.9 5.1 5.4 5.2 6 6.8
Sample Data	Concentration(pg/ml) 0 78 156 312 625 1250 2500 5000 O.D. 0.024 0.068 0.101 0.149 0.251 0.540 1.055 1.835
Anticoagulant	Heparin
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Relaxin 1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for RLN1 elisa kit

Principle of the assay: Human Relaxin 1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Relaxin 1 has been precoated onto 96-well plates. Standards(E Coli,R162-Cys185 (A) & K26-S53 (B)) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Relaxin 1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Relaxin 1 amount of sample captured in plate.

Background: Relaxin 1 is a member of relaxin-like peptide family. Relaxin gene maps to human chromosome 19 near D19Mit23. Relaxin is a peptide hormone produced by the corpora lutea of ovaries during pregnancy in many mammalian species, including man. Relaxin widens the pubic bone and facilitates labor, it also softens the cervix (cervical ripening), and relaxes the uterine musculature. However, its significance may reach much further. Relaxin affects collagen metabolism, inhibiting collagen synthesis and enhancing its breakdown by increasing matrix metalloproteinases. It also enhances angiogenesis and is a potent renal vasodilator.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5902052
NCBI GeneID	6013
NCBI Accession #	NP_008842.1
NCBI GenBank Nucleotide #	NM_006911.3
UniProt Accession #	P04808; Q99936; Q9UQJ1
Molecular Weight	13,011 Da
NCBI Official Full Name	prorelaxin H1 preproprotein
NCBI Official Synonym Full Names	relaxin 1
NCBI Official Symbol	RLN1
NCBI Official Synonym Symbols	H1; H1RLX; RLXH1; bA12D24.3.1; bA12D24.3.2
NCBI Protein Information	prorelaxin H1
UniProt Protein Name	Prorelaxin H1
UniProt Gene Name	RLN1

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/relaxin-1-picokine/46180>