

Datasheet for KOA0863**Human Relaxin 2 ELISA Kit****Overview**

Description:	Human Relaxin 2 AccuSignal ELISA Kit - KOA0863
Item No.:	KOA0863
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	7.8 pg/ml - 500 pg/ml

Product Details

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.
Synonyms:	H2, Relaxin H2, RelaxinH2, Relaxin-H2, Relaxin 2, Relaxin2, Relaxin-2, RLN 2, RLN2, RLN-2, Relaxin A chain, RLXH2
Detection Kit Type:	ELISA Kit
Detection Range:	7.8 pg/ml - 500 pg/ml
Sensitivity:	<4 pg/ml

Target Details

Gene Name:	RLN2
Reactivity:	Human

Immunogen:	Expression system for standard: E.coli; Immunogen sequence: Q162-C185(A)&D25-S53(B)
Purity/Specificity:	Natural and recombinant human Relaxin 2. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P04090 • NCBI - NP_005050.2 • GenelD - 6019 • KOA0863 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml, 7.8pg/ml human Relaxin 2 standard solutions into the precoated 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, EDTA) to each empty well. We recommend that each human Relaxin 2 standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant:	Heparin Sodium
-----------------------	----------------

Shipping & Handling

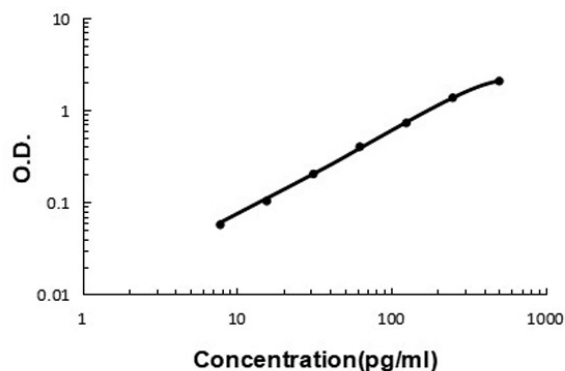
Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images

Human Relaxin 2 ELISA Kit

ELISA

Human Relaxin 2 ELISA Kit standard curve.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.