Datasheet for ABIN2859258

Relaxin 3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	Relaxin 3 (RLN3)
Binding Specificity:	AA 27-53, AA 119-142
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Relaxin 3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: D119-C142(A)&A27-R53(B)
Specificity:	E.coli, D119-C142(A)&A27-R53(B)
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	Relaxin 3 (RLN3)
Alternative Name:	RLN3 (RLN3 Products)
Background:	Protein Function: May play a role in neuropeptide signaling processes. Ligand for LGR7, relaxin-3 receptor-1 (GPCR135) and relaxin-3 receptor-2 (GPCR142). Background: Relaxin-3 is a neuropeptide which is highly conserved in species ranging from flies, fish, rodents and humans. It is a member and ancestral gene of the relaxin family of peptides, which includes the namesake hormone relaxin (designated 'H2 relaxin' in humans) which mediates peripheral actions during pregnancy and which was found to relax the pelvic ligament in guinea pigs almost a century ago. The broad distribution of relaxin-3 fibres/RXFP3 within several key neuronal circuits suggests an ability to modulate a broad range of behaviours. This has been confirmed in a growing number of rodent studies, which demonstrate relaxin-3 is able to modulate arousal, the response to stress, feeding/metabolism and memory, and likely plays a role in the generation/regulation of hippocampal theta rhythm. Synonyms: Relaxin-3,Insulin-like peptide INSL7,Insulin-like peptide 7,Prorelaxin H3,Relaxin-3 B chain,Relaxin-3 A chain,RLN3,INSL7, RXN3, ZINS4,UNQ6188/PRO20213, Full Gene Name: Relaxin-3 Cellular Localisation: Secreted.
Gene ID:	117579
UniProt:	Q8WXF3
Pathways:	Hormone Activity, cAMP Metabolic Process

Application Details

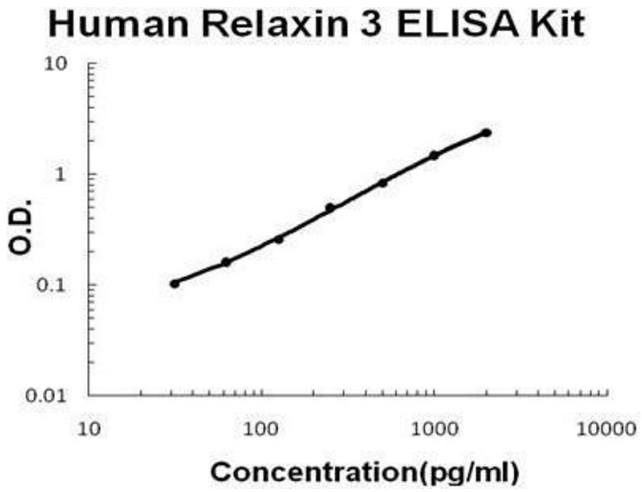
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	human Relaxin 3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

Application Details

	assay technology. A monoclonal antibody from mouse specific for Relaxin 3 has been precoated onto 96-well plates. Standards(E. coli, D119-C142 (A) & A27-R53(B)) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Relaxin 3 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 3 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human Relaxin 3 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human Relaxin 3 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 112, Standard deviation: 6.16, CV(%): 5.5 • Sample 2: n=16, Mean(pg/ml): 259, Standard deviation: 13.20, CV(%): 5.1 • Sample 3: n=16, Mean(pg/ml): 973, Standard deviation: 50.59, CV(%): 5.2, • Sample 1: n=24, Mean(pg/ml): 125, Standard deviation: 7.75, CV(%): 6.2 • Sample 2: n=24, Mean(pg/ml): 276, Standard deviation: 16.28, CV(%): 5.9 • Sample 3: n=24, Mean(pg/ml): 1093, Standard deviation: 60.11, CV(%): 5.5
Restrictions:	For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human Relaxin 3 PicoKine ELISA Kit standard curve

