Datasheet for ABIN1889393
Relaxin 1 ELISA Kit

1	Image

Overview

Quantity:	96 tests
Target:	Relaxin 1 (RLN1)
Binding Specificity:	AA 23-54, AA 161-185
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	78-5000 pg/mL
Minimum Detection Limit:	78 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Relaxin 1
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: R23-R54(B)&E161-C185(A)
Specificity:	Expression system for standard: E.coli Immunogen sequence: R23-R54(B)&E161-C185(A)
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/mL
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 1 (RLN1)
Alternative Name:	RLN1 (RLN1 Products)
Background:	Protein Function: Relaxin is an ovarian hormone that acts with estrogen to produce dilatation of the birth canal in many mammals.
	Background: Relaxin 1 is a member of relaxin-like peptide family. Relaxin gene maps to mouse 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.
	Synonyms: Prorelaxin 1,Relaxin B chain,Relaxin A chain,Rln1,Rln, Rlx,
	Full Gene Name: Prorelaxin 1
	Cellular Localisation: Secreted.
Gene ID:	19773
UniProt:	P47932

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:	mouse Relaxin 1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for Relaxin 1 has been precoated onto 96-well plates. Standards(E.coli, R23-R54(B) & E161-C185(A)) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Relaxin 1 is

Application Details

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 mouse Relaxin 1 amount of sample captured in plate.

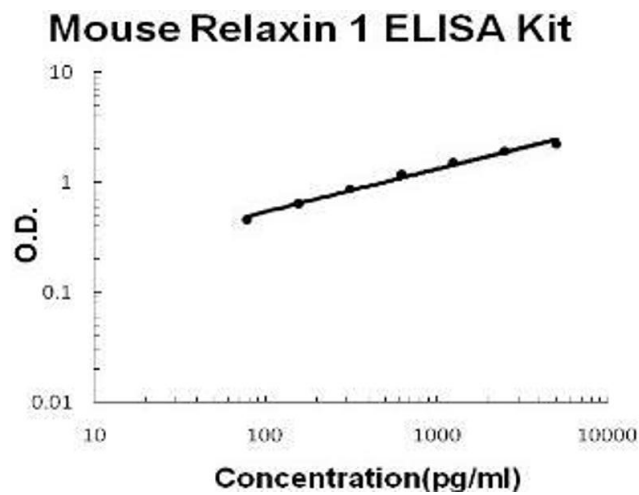|	
Assay Procedure:	Aliquot 0.1 mL per well of 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL, 78pg/mL mouse Relaxin 1 standard solutions into the pre-coated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin) to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each mouse Relaxin 1 standard solution and each sample is measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 688, Standard deviation: 45.41, CV(%): 6.6 • Sample 2: n=16, Mean(pg/ml): 1402, Standard deviation: 60.3, CV(%): 4.3 • Sample 3: n=16, Mean(pg/ml): 2366, Standard deviation: 130, CV(%): 5.5, • Sample 1: n=24, Mean(pg/ml): 651, Standard deviation: 48.2, CV(%): 7.4 • Sample 2: n=24, Mean(pg/ml): 1583, Standard deviation: 95, CV(%): 6 • Sample 3: n=24, Mean(pg/ml): 2425, Standard deviation: 174.6, CV(%): 7.2
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

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Images

Mouse Relaxin 1 ELISA Kit

ELISA

Image 1. Mouse Relaxin 1 PicoKine ELISA Kit standard curve