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Datasheet for KOA0735

Human Renin ELISA Kit

Overview

Description:	Human Renin AccuSignal ELISA Kit - KOA0735
Item No.:	KOA0735
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	Renin, also known as an angiotensinogenase, is an enzyme that participates in the body's renin-angiotensin system(RAS). This gene is mapped to 1q32.1. Renin's primary function is to cause an increase in blood pressure, leading to restoration of perfusion pressure in the kidneys. It also can catalyze the first step in the activation pathway of angiotensinogen--a cascade that can result in aldosterone release, vasoconstriction. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to angiotensin II by angiotensin I converting enzyme, an important regulator of blood pressure and electrolyte balance. What's more, Renin secretion is also stimulated by sympathetic nervous stimulation, mainly through beta-1 adrenoceptor activation.
Synonyms:	ATP6AP2, ATP6M8-9, ATPase H(+)-transporting lysosomal accessory protein 2, ATPase H(+)-transporting lysosomal-interacting protein 2, Embryonic liver differentiation factor 10, ER-localized type I transmembrane adaptor, N14F, Renin receptor, Renin/prorenin receptor, RENR_HUMAN, V-ATPase M8.9 subunit, Vacuolar ATP synthase membrane sector-associated protein M8-9
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	REN
Reactivity:	Human

Immunogen:	Expression system for standard: NSO; Immunogen sequence: L67-R406
Purity/Specificity:	Natural and recombinant human Renin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P00797 • NCBI - NP_000528.1 • GeneID - 5972 • KOA0735 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml,1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human Renin 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, plasma(heparin, EDTA) or urine to each empty well. It is recommended that each human Renin standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	DOE: 2-8° C - 4/11/18 -20° C - 10/12/18

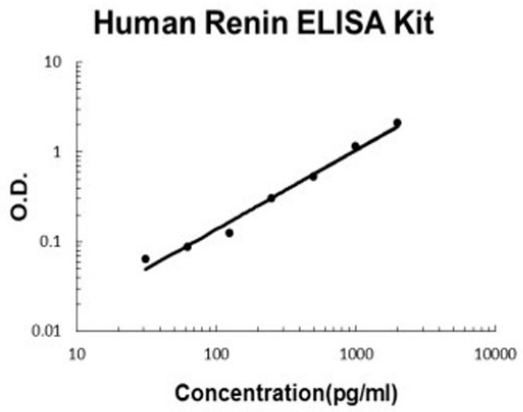
Formulation

Concentration:	1 Kit
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



ELISA
Human Renin 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.