

Datasheet for KOA0759**Human Corin ELISA Kit****Overview**

Description:	Human Corin AccuSignal ELISA Kit - KOA0759
Item No.:	KOA0759
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	Atrial natriuretic peptide-converting enzyme, also called CRN or ATC2, is a protein that in humans is encoded by the CORIN gene. It is mapped to 4p12. This gene encodes a member of the type II transmembrane serine protease class of the trypsin superfamily. Members of this family are composed of multiple structurally distinct domains. It has been found that Corin is the pro-ANP-converting enzyme and that Corin-mediated pro-ANP activation may play a role in regulating blood pressure. What's more, Corin and ANP are essential for physiologic changes at the maternal-fetal interface. This protein may also function as a pro-brain-type natriuretic peptide convertase. Corin gene mutations which cause Corin to impair activity might be an underlying mechanism in hypertension.
Synonyms:	activated protease fragment, ATC 2, ATC2, Atrial natriuretic peptide-converting enzyme, Atrial natriuretic peptide converting enzyme, Corin, Corin serine peptidase, CORIN_HUMAN, CRN, Heart specific serine proteinase, Heart specific serine proteinase ATC2, Heart-specific serine proteinase ATC2, Lrp 4, Lrp4, MGC119742, Pro ANP convertase, Pro ANP converting enzyme, Pro-ANP-converting enzyme, TMPRSS 10, TMPRSS10, Transmembrane protease serine 10
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	CORIN
Reactivity:	Human

Immunogen:	Expression system for standard: NSO; Immunogen sequence: S67-N1042
Purity/Specificity:	Natural and recombinant human Corin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q9Y5Q5 • NCBI - NP_001265514.1 • GeneID - 10699 • KOA0759 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human Corin 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 tissue homogenates to each empty well. It is recommended that each human Corin 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.

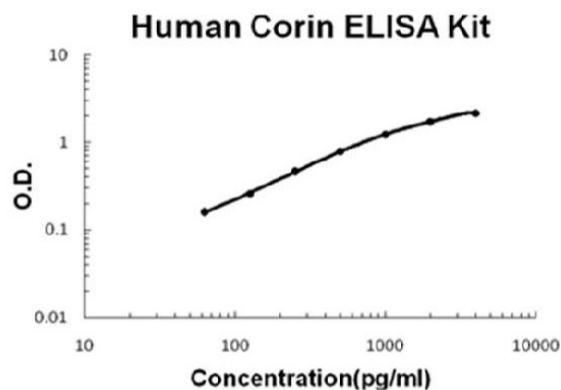
Formulation

Anticoagulant:	Heparin Sodium
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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 Corin 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.