

Human Corin ELISA Kit | CORIN elisa kit

Human Corin PicoKine ELISA Kit

CATALOG #
AAA46003

REACTIVITY
Human

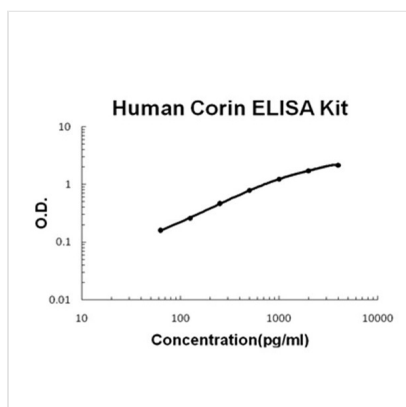
PRODUCT SYNONYMS

Corin; Human Corin PicoKine ELISA Kit; Atrial natriuretic peptide-converting enzyme; corin; serine peptidase; activated protease fragment; ATC 2; ATC2; Atrial natriuretic peptide converting enzyme; Corin serine peptidase; CORIN_HUMAN antibody 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; CORIN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Corin
Sequence Length	1042
Samples	Cell culture supernates, serum, plasma (heparin, EDTA) and tissue homogenates
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Corin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CORIN elisa kit	Principle of the assay: human Corin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Corin has been precoated onto 96-well plates. Standards(NSO, S67-N1042) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Corin 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 Corin amount of sample captured in plate. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	317373348
NCBI GeneID	10699
UniProt Accession #	Q9Y5Q5; Q2TBD2; Q4W5E5; Q4W5G6; Q9UHY2; B0ZBE3
Molecular Weight	113,297 Da
NCBI Official Full Name	Atrial natriuretic peptide-converting enzyme
NCBI Official Synonym Full Names	corin, serine peptidase
NCBI Official Symbol	CORIN
NCBI Official Synonym Symbols	CRN; ATC2; Lrp4; PEE5; TMPRSS10
NCBI Protein Information	atrial natriuretic peptide-converting enzyme; pro-ANP-convertase; pro-ANP-converting enzyme; transmembrane protease serine 10; heart-specific serine proteinase ATC2
UniProt Protein Name	Atrial natriuretic peptide-converting enzyme
UniProt Gene Name	CORIN
UniProt Synonym Gene Names	CRN; TMPRSS10
UniProt Entry Name	CORIN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.