

Mouse Corin (CRN) ELISA Kit | CRN elisa kit

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CATALOG #
AAA20664

REACTIVITY
Mouse

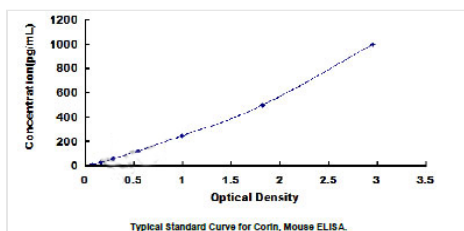
PRODUCT SYNONYMS

Corin (CRN); Mouse Corin (CRN) ELISA Kit; ATC2; CRN; Lrp4; TMPRSS10; Atrial Natriuretic Peptide-Converting Enzyme; Serine Protease; Heart-specific serine proteinase ATC2; Pro-ANP-converting enzyme; CRN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of corin. No significant cross-reactivity or interference between corin and analogues was observed.
Sequence Length	1,013
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.059ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level corin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level corin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CRN elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to corin. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to corin. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain corin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of corin in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of corin in mouse tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for CRN elisa kit	Enzyme & Kinase
References	Chronic Kidney Disease Is Associated With Increased Cardiac Corin Expression But Decreased Proatrial Natriuretic Peptide Conversion Activity; J Am Heart Assoc; 2022 Jul 19;11(14):e025208.; PMID: 35861835; Shang-Feng Yang; Division of Nephrology, Department of Medicine Cheng Hsin General Hospital Taipei Taiwan.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4884872
NCBI GeneID	10699
UniProt Accession #	Q9Y5Q5; Q2TBD2; Q4W5E5; Q4W5G6; Q9UHY2; B0ZBE3
Molecular Weight	113,297 Da
NCBI Official Full Name	corin
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
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.