

Human Renin ELISA Kit | REN elisa kit

Human Renin PicoKine ELISA Kit

CATALOG #
AAA11614

REACTIVITY
Human

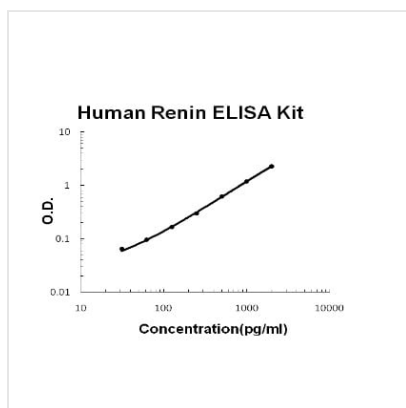
PRODUCT SYNONYMS

Renin; Human Renin PicoKine ELISA Kit; renin; Angiotensinogenase; REN; RENI_HUMAN; REN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Renin
Sequence Length	406
Samples	Cell culture supernates, serum, plasma (heparin, EDTA) and urine
Assay Type	Sandwich
Detection Range	31.2pg/ml-2000pg/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 Renin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for REN elisa kit	Principle of the assay: human Renin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Renin has been precoated onto 96-well plates. Standards(NSO, L67-R406) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Renin 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 Renin amount of sample captured in plate. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	132326
NCBI GeneID	5972
UniProt Accession #	P00797; Q6FI38; Q6T5C2
Molecular Weight	44,726 Da
NCBI Official Full Name	Renin
NCBI Official Synonym Full Names	renin
NCBI Official Symbol	REN
NCBI Official Synonym Symbols	HNFJ2
NCBI Protein Information	renin; angiotensinogenase; renin precursor, renal; angiotensin-forming enzyme
UniProt Protein Name	Renin
UniProt Gene Name	REN
UniProt Entry Name	RENI_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.