

Human Renin ELISA Kit | REN elisa kit

Human Renin (REN) ELISA Kit

CATALOG #
AAA55884

REACTIVITY
Human

PRODUCT SYNONYMS

Renin; Human Renin (REN) ELISA Kit; LJ10761; HNFJ2; angiotensin-forming enzyme|angiotensinogenase|renin precursor; renal; REN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human REN. No significant cross-reactivity or interference between Human REN and analogues was observed.
Sequence Length	406
Samples	Serum, Plasma, Other biological fluids
Assay Type	Sandwich
Sample Volume	1-200 uL
Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100 Intra-Assay: CV Inter-Assay: CV
Detection Wavelength	450 nm
Preparation and Storage	Store at 2-8 degree C.

ADDITIONAL INFORMATION

Related Product Information for REN elisa kit

Renin is a member of the aspartyl proteinase family produced largely in part by the juxtaglomerular cells in the kidney. Renin differs from the other members of this class by having a pH optimum near neutral pH region with native substrates instead of 2.0 to 3.4 This more neutral pH optimum allows it to be functional in the plasma. Renin also has very high selectivity for substrate due to quite long peptide recognition on either side of the peptide bond undergoing cleavage. An octapeptide substrate was the minimum length to be cleaved by renin. Renin plays a crucial role in the regulation of blood pressure and salt balance through the cleavage of angiotensinogen, which is the only known physiological substrate of renin.

Principle of the Assay: This assay employs a two-site sandwich ELISA to quantitate REN in samples. An antibody specific for REN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any REN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for REN is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of REN bound in the initial step. The color development is stopped and the intensity of the color is measured.

NCBI AND UNIPROT INFORMATION

NCBI GI #

[4506475](#)

NCBI GeneID	5972
NCBI Accession #	NP_000528.1
NCBI GenBank Nucleotide #	NM_000537.3
UniProt Accession #	P00797; Q6FI38; Q6T5C2
Molecular Weight	44,726 Da
NCBI Official Full Name	renin preproprotein
NCBI Official Synonym Full Names	renin
NCBI Official Symbol	REN
NCBI Official Synonym Symbols	HNFJ2
NCBI Protein Information	renin
UniProt Protein Name	Renin
UniProt Gene Name	REN

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.

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Online datasheet: <https://www.aaabiotech.com/ren-human-elisa-kits/renin/55884>