

Human Renin (REN) ELISA Kit | REN elisa kit

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CATALOG #
AAA331005

REACTIVITY
Human

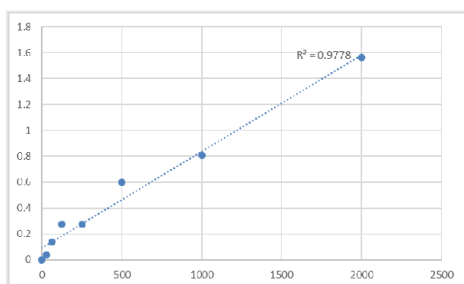
PRODUCT SYNONYMS

Renin (REN); Human Renin (REN) ELISA Kit; REN; FLJ10761; HNFJ2; angiotensin-forming enzyme; angiotensinogenase; renin precursor; renal; REN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Renin (REN) ELISA Kit 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
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Renin (REN) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for REN elisa kit	Description: This Human Renin (REN) ELISA Kit 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506475
NCBI GeneID	5972
NCBI Accession #	NP_000528.1
NCBI GenBank Nucleotide #	NP_000528.1
UniProt Accession #	P00797
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
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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/renin-ren/331005>