

Rat Renin (REN) CLIA Kit | REN clia kit

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CATALOG #
AAA161562

REACTIVITY
Rat

PRODUCT SYNONYMS

Renin (REN); Rat Renin (REN) CLIA Kit; REN CLIA kit (Rat); angiotensinogenase; REN clia kit

PRODUCT SPECIFICATIONS

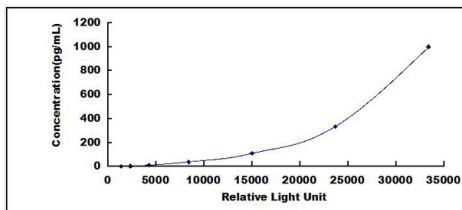
Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Renin (REN). No significant cross-reactivity or interference between Renin (REN) and analogues was observed. Reactive with Rat REN/Renin
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma and other biological fluids
Detection Method	Chemiluminescence
Featured Series	SE kit
Detection Range	1.37-1,000pg/mL
Sensitivity	0.49pg/mL
Sample Size	100uL
Assay Time	2h, 40min
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Renin (REN) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Renin (REN) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 100ul Substrate Solution. Incubate 10 minutes at 37 degree C 8. Read RLU value immediately.
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Renin (REN). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Renin (REN). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Renin (REN) level in the sample or standard.
Research Area	Endocrinology, Cardiovascular biology, Kidney biomarker, Hormone metabolism

Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life)

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)

Typical Standard Curve for REN CLIA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	148747255
NCBI GeneID	24715
NCBI Accession #	NP_036774.4
NCBI GenBank Nucleotide #	NM_012642.4
UniProt Accession #	P08424; Q63497
Molecular Weight	160,000
NCBI Official Full Name	renin
NCBI Official Synonym Full Names	renin
NCBI Official Symbol	Ren
NCBI Official Synonym Symbols	Ren1; RENAA; RATRENAA
NCBI Protein Information	renin; angiotensinogenase; renin 1 structural
UniProt Protein Name	Renin
UniProt Gene Name	Ren1
UniProt Synonym Gene Names	Ren
UniProt Entry Name	RENI_RAT

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/rat-clia-kits/renin-ren/161562>