

Mouse Renin-1 ELISA Kit | Ren1 elisa kit

Mouse Renin-1

CATALOG #
AAA59122

REACTIVITY
Mouse

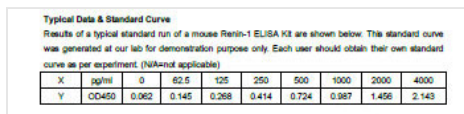
PRODUCT SYNONYMS

Renin-1; Mouse Renin-1; Ren 1 ELISA Kit; Ren1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Sequence Length	402
Samples	Mouse serum, plasma or cell culture supernates
Assay Type	Quantitative Sandwich
Detection Range	62.5 pg/ml-4000 pg/ml
Sensitivity	<10 pg/ml
Preparation and Storage	Store at 2-8 degree C for 6 months, or at -20 degree C for 12 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Ren1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Renin-1 monoclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Renin-1 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 Renin-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Renin-1 can be calculated.

Background: The secretion of renin from granules stored in renal juxtaglomerular cells plays a key role in blood pressure homeostasis. The synthesis and release of renin and the extent of granulation is regulated by several mechanisms including signaling from the macula densa, neuronal input, and blood pressure. Clark AF et al study indicate that expression of the Ren-1(d) gene is a prerequisite for the formation of storage granules, even though the related protein renin-2 is present in these mice, suggesting that renin-1(d) and renin-2 are secreted by distinct pathways in vivo. The synthesis of renin and other biologically active polypeptides in the granular convoluted tubule cells of the mouse submandibular gland (SMG) is regulated by androgen and thyroid hormones. The androgen and thyroid hormones influence levels of renin-1 in mouse SMG primarily by regulating the amount of renin-1 mRNA available for translation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13676837
NCBI GeneID	19701
NCBI GenBank Nucleotide #	NM_031192.3
Molecular Weight	44,343 Da
NCBI Official Full Name	renin-1
NCBI Official Synonym Full Names	renin 1 structural
NCBI Official Symbol	Ren1
NCBI Official Synonym Symbols	Ren; Rnr; Rn-1; Ren-1; Ren-A; Ren1c; Ren1d; D19352
NCBI Protein Information	renin-1
UniProt Protein Name	Renin-1
UniProt Gene Name	Ren1
UniProt Synonym Gene Names	Ren; Ren-1
UniProt Entry Name	RENI1_MOUSE

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/mouse-elisa-kits/renin-1/59122>