

## Mouse Renin-1 ELISA Kit | REN elisa kit

Mouse Renin-1 PicoKine ELISA Kit

CATALOG #  
**AAA45871**

REACTIVITY  
**Mouse**

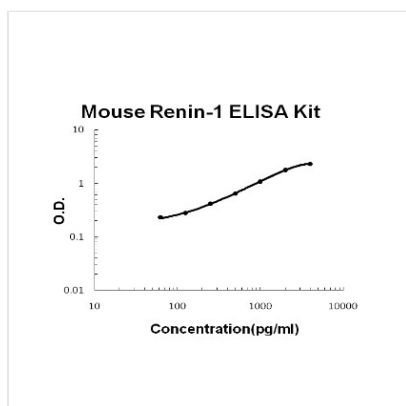
### PRODUCT SYNONYMS

Renin-1; Mouse Renin-1 PicoKine ELISA Kit; renin; Angiotensin forming nzyme; Angiotensinogenase; FLJ10761; HNFJ2; REN; Ren1; RENAA; RENI\_HUMAN; Renin; Renin precursor renal; Renin-2; REN elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                 |
| Specificity             | Natural and recombinant mouse Renin-1                                                                                                                 |
| Sequence Length         | 402                                                                                                                                                   |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA)                                                                                             |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 62.5pg/ml-4000pg/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)

Mouse Renin-1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for REN elisa kit | <p><b>Principle of the assay:</b> mouse Renin-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for Renin-1 has been precoated onto 96-well plates. Standards(NSO, S72-R402) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Renin-1 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 mouse Renin-1 amount of sample captured in plate.</p> <p><b>Background:</b> Renin-1 is also known as Ren, Angiotensinogenase or Kidney rennin. It is a member of peptidase A1 family. Renin is a highly specific endopeptidase, whose only known function is to generate angiotensin I from angiotensinogen in the plasma, initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney. It associated to membranes via binding to ATP6AP2.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 132327                                                                |
| NCBI GeneID                      | 19701                                                                 |
| UniProt Accession #              | P06281; P97911; Q543E5; Q62153; Q62154                                |
| 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; renin b; kidney renin; aspartyl-protease; angiotensinogenase |
| UniProt Protein Name             | Renin-1                                                               |
| UniProt Gene Name                | <b>Ren1</b>                                                           |
| 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.