

## General Prorenin/Renin Total Antigen ELISA Kit | REN1 elisa kit

Mouse Prorenin/Renin Total Antigen ELISA Kit

CATALOG #  
**AAA37755**

REACTIVITY  
**General**

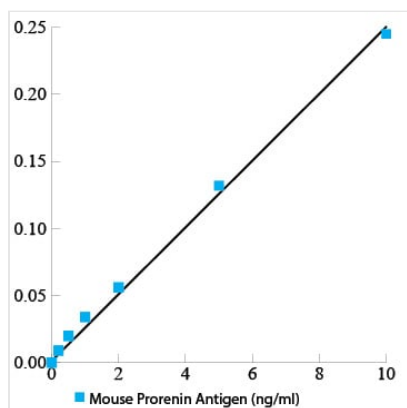
### PRODUCT SYNONYMS

Prorenin/Renin Total Antigen; Mouse Prorenin/Renin Total Antigen ELISA Kit; REN1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| Reactivity              | General                                                                                    |
| Specificity             | These studies are currently in progress. Please contact us for more information.           |
| Form/Format             | Complete Kit                                                                               |
| Sequence Length         | 402                                                                                        |
| Samples                 | Cell culture media samples                                                                 |
| Intra-assay Precision   | These studies are currently in progress. Please contact us for more information.           |
| Inter-assay Precision   | These studies are currently in progress. Please contact us for more information.           |
| Preparation and Storage | Store at 4 degree C. Shelf Life: 12 months from manufacture, see label for expiration date |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for REN1 elisa kit | <p><b>Intended Uses:</b> This mouse prorenin/renin total antigen assay is intended for the quantitative determination of total prorenin and renin antigen in cell culture media samples. For research use only.</p> <p><b>Principle of the Assay:</b> Mouse prorenin and renin will bind to the affinity purified capture antibody coated on the microtiter plate. After appropriate washing steps, biotin labeled polyclonal anti-mouse prorenin primary antibody binds to the captured protein. Excess antibody is washed away and bound polyclonal antibody is reacted with avidin conjugated to horseradish peroxidase. TMB substrate is used for color development at 450nm. A standard calibration curve is prepared along with the samples to be measured using dilutions of mouse prorenin. Color development is proportional to the total concentration of prorenin and renin in the samples.</p> <p><b>Background:</b> Prorenin is a glycosylated aspartic protease that consists of 2 homologous lobes and is the precursor of renin. Renin activates the renin-angiotensin system by cleaving angiotensinogen, produced by the liver, to yield angiotensin I, which is further converted into angiotensin II by ACE, the angiotensin-converting enzyme primarily within the capillaries of the lungs. It has been reported that the levels of circulating prorenin (but not renin) are increased in diabetic subjects [1].</p> |
| Product Categories/Family for REN1 elisa kit   | Renin/Prorenin; Prorenin ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 13676837                                                              |
| NCBI GeneID                      | 19701                                                                 |
| NCBI Accession #                 | NP_112469.1                                                           |
| NCBI GenBank Nucleotide #        | NM_031192.3                                                           |
| 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                | 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://www.aaabiotech.com/ren1-general-elisa-kits/prorenin-renin-total-antigen/37755>