

Renin Rabbit mAb

Catalog No.: A24393 **Recombinant**

Basic Information

Observed MW

42kDa

Calculated MW

45kDa

Category

Primary antibody

Applications

ELISA,WB,IF/ICC

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC63715

Background

This gene encodes renin, an aspartic protease that is secreted by the kidneys. Renin is a part of the renin-angiotensin-aldosterone system involved in regulation of blood pressure, and electrolyte balance. This enzyme catalyzes the first step in the activation pathway of angiotensinogen by cleaving angiotensinogen to form angiotensin I, which is then converted to angiotensin II by angiotensin I converting enzyme. This cascade can result in aldosterone release, narrowing of blood vessels, and increase in blood pressure as angiotensin II is a vasoconstrictive peptide. Transcript variants that encode different protein isoforms and that arise from alternative splicing and the use of alternative promoters have been described, but their full-length nature has not been determined. Mutations in this gene have been shown to cause hyperuricemic nephropathy familial juvenile 2, familial hyperproreninemia, and renal tubular dysgenesis.

Recommended Dilutions

WB	1:2000 - 1:6000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

5972

Swiss Prot

P00797

Immunogen

Recombinant Protein corresponding to a sequence within amino acids 250-406AA of human Renin (NP_000528.1).

Synonyms

RTD; HNFJ2; ADTKD4; Renin

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

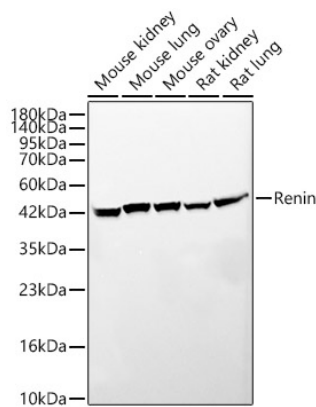
Affinity purification

Storage

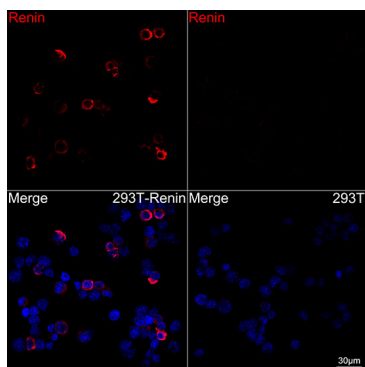
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of various lysates, using Renin Rabbit mAb (A24393) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



Confocal imaging of 293T-Renin and 293T cells using Renin Rabbit mAb (A24393, dilution 1:200) (Red). DAPI was used for nuclear staining (blue). Objective: 100x.