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Renin Antibody

Store at -20C
#5250

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 40-45	Source/Isotype: Rabbit	UniProt ID: #P00797	Entrez-Gene Id: 5972
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Renin Antibody detects transfected levels of human Renin protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu308 of human renin. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Renin is a secreted proteinase whose enzymatic activity is to convert angiotensinogen into angiotensin I in the plasma, initiating a process that results in an elevation of blood pressure and increased sodium retention by the kidney (1). Renin is synthesized in kidney as a precursor, prorenin, which is released into circulation. Both renin and prorenin can bind to (pro)renin receptor and induce angiotensin-independent signaling events leading to activation of MAPKs and up-regulation of TGF-β1 and matrix proteins (2, 3). Defects in renin can cause renal tubular dysgenesis, a severe autosomal recessive disorder of renal tubular development (4, 5).

Background References

1. Castrop, H. et al. (2010) *Physiol Rev* 90, 607-73.
2. Ichihara, A. et al. *J Nephrol* 22, 306-11.
3. Nguyen, G. (2010) *Ann Med* 42, 13-8.
4. Lacoste, M. et al. (2006) *J Am Soc Nephrol* 17, 2253-63.
5. Gubler, M.C. and Antignac, C. (2010) *Kidney Int* 77, 400-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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