

#5250 Store at -20°C

Renin Antibody



Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Transfected Only	40-45	Rabbit	#P00797	5972

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

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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