Renin (REN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Renin (REN), Polyclonal Antibody
Full Product Name	Biotin-Linked Polyclonal Antibody to Renin (REN)
Product Gene Name	anti-REN antibody
Product Synonym Names	angiotensinogenase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: REN (MBS2027108) Biotin Conjugated Antibody: REN (MBS2092641)
Matching Pairs	Biotin Conjugated Antibody: REN (MBS2092641) Immunogen: REN (MBS2031415)
Molecular Weight	44,726 Da
3D Structure	ModBase 3D Structure for P00797
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	Biotin
Cross Reactivity	Human, Mouse
Immunogen	REN (Leu67~Glu179)
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-REN antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-REN antibody	MBS2092641 is an antibody targeting REN. Also known as Biotin-Linked Polyclonal Antibody to Renin (REN). Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-REN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for REN. It may not necessarily be applicable to this product.

NCBI GI #	4506475
NCBI GeneID	5972
NCBI Accession #	NP_000528.1
UniProt Primary Accession #	P00797
UniProt Secondary Accession #	Q6FI38; Q6T5C2

UniProt Related Accession #	P00797
GenBank Nucleotide #	NM_000537.3
NCBI Official Full Name	renin preproprotein
NCBI Official Synonym Full Names	renin
NCBI Official Symbol	REN
NCBI Official Synonym Symbols	HNFJ2
UniProt Protein Name	Renin
UniProt Synonym Protein Names	Angiotensinogenase
Protein Family	Protein
UniProt Gene Name	REN
NCBI Protein Information	renin
NCBI Summary for REN	Renin catalyzes the first step in the activation pathway of angiotensinogen--a cascade that can result in aldosterone release,vasoconstriction, and increase in blood pressure. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to angiotensin II by angiotensin I converting enzyme, an important regulator of blood pressure and electrolyte balance. 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 familial hyperproreninemia. [provided by RefSeq, Jul 2008]
UniProt Comments for REN	REN: 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. Interacts with ATP6AP2. Interaction with ATP6AP2 results in a 5-fold increased efficiency in angiotensinogen processing. Belongs to the peptidase A1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.23.15; Protease; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: apical part of cell; cytoplasm; extracellular region; extracellular space; plasma membrane Molecular Function: aspartic-type endopeptidase activity; insulin-like growth factor receptor binding; peptidase activity; protein binding; receptor binding Biological Process: angiotensin maturation; beta-amyloid metabolic process; cell maturation; drinking behavior; hormone-mediated signaling pathway; kidney development; male gonad development; mesonephros development; protein catabolic process; proteolysis; regulation of blood pressure; regulation of MAPK cascade; renin-angiotensin regulation of aldosterone production; response to cAMP; response to cGMP; response to lipopolysaccharide Disease: Hyperuricemic Nephropathy, Familial Juvenile, 2; Renal Tubular Dysgenesis
Research Articles on REN	**1.** Autosomal dominant polycystic kidney disease (ADPKD), uniquely increases urinary angiotensinogen and renin excretion despite their circulating levels being comparable with those in non-ADPKD chronic kidney disease.
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