

## Product datasheet for **CF807104**

### Renin (REN) Mouse Monoclonal Antibody [Clone ID: OTI4A3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4A3
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 131-406 of human REN(NP_000528) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42.3 kDa
Gene Name:	renin
Database Link:	<a href="#">NP_000528</a> <a href="#">Entrez Gene 5972 Human P00797</a>



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**Background:**

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]

**Synonyms:**

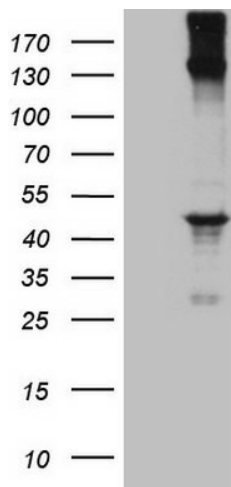
ADTKD4; HNFJ2; RTD

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Renin-angiotensin system

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY REN ([RC208382], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-REN (1:500). Positive lysates [LY424660] (100ug) and [LC424660] (20ug) can be purchased separately from OriGene.