

Anti-Renin Antibody (11520)

Product Details

Reactivity:	Human
Molecular Weight:	Theoretical: 37 kDa. Actual: 45 kDa.
Clone:	11520
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Renin) Monoclonal Antibody, Unconjugated (TMAB-12189) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

Verified Activity:

2. Sample:

Lane 1: Recombinant human Renin protein, C-His (HEK293)

Primary: Anti-Renin (TMAB-12189) at 1/1000 dilution

Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific

Predicted band size: 37 kDa

Observed band size: 45 kDa

Application: IHC-P,WB,IHC-Fr,IF

Recommended IHC-P: 1:100-500; WB: 1:500-2000; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: human Renin protein
Antigen Species:	Human
Gene ID:	5972
Uniprot ID:	P00797

Research 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].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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