

## Anti-Renalase Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Dog, Pig, Horse, Rabbit)
Molecular Weight:	Theoretical: 36 kDa. Actual: 36 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	1. Sample: Kidney (Mouse) Lysate at 40 µg Primary: Anti-Renalase (TMAB-12186) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 36 kD Observed band size: 35 kD
	2. Sample: U937 Cell (Human) Lysate at 40 µg Primary: Anti-Renalase (TMAB-12186) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 36 kD Observed band size: 36 kD
	Application: WB
	Recommended WB: 1:500-2000

### 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:	KLH conjugated synthetic peptide: human Renalase
Antigen Species:	Human
Gene ID:	55328
Uniprot ID:	Q5VYX0

### Research Background

Renalase, a novel FAD dependent amine oxidase, is secreted by the kidney, degrades circulating catecholamines, and modulates cardiac function and lowers systemic blood pressure. In vivo, it has been found to decrease cardiac contractility and heart rate and prevents a compensatory increase in peripheral vascular tone, possibly explaining the association between increased plasma catecholamines and heightened cardiovascular risk. The plasma concentration of renalase is markedly reduced in patients with end-stage renal disease, as compared with healthy subjects. The administration of renalase (or renalase mimics) may offer a new approach to the treatment of hypertension commonly found in renal disease, which is associated with a marked increase in cardiovascular disease.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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