

For Research Use Only

# RENALASE Polyclonal antibody



Catalog Number: 15003-1-AP

Featured Product

5 Publications

## Basic Information

**Catalog Number:**

15003-1-AP

**Size:**

150UL, Concentration: 333 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG13061

**GenBank Accession Number:**

BC005364

**GeneID (NCBI):**

55328

**Full Name:**

chromosome 10 open reading frame 59

**Calculated MW:**

38 kDa

**Observed MW:**

35 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2400

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:50-1:500

## Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB: human heart tissue, mouse small intestine tissue

IP: HEK-293 cells,

IHC: human kidney tissue,

IF: HEK-293 cells,

## Background Information

RNLS, also named as Renalase, C10orf59 and MAO-C, belongs to the renalase family. It is probable FAD-dependent amine oxidase secreted by the kidney, which circulates in blood and modulates cardiac function and systemic blood pressure. RNLS degrades catecholamines such as dopamine, norepinephrine and epinephrine in vitro. It lowers blood pressure in vivo by decreasing cardiac contractility and heart rate and preventing a compensatory increase in peripheral vascular tone, suggesting a causal link to the increased plasma catecholamine and heightened cardiovascular risk. High concentrations of catecholamines activate plasma renalase and promotes its secretion and synthesis. RNLS has physiologically relevant catecholamine-oxidizing activity. (PMID:15841207) This antibody is specific to RNLS.

## Notable Publications

Author	Pubmed ID	Journal	Application
Janete Quelhas-Santos	24599883	Exp Biol Med (Maywood)	WB
Kai Aoki	33338501	Life Sci	WB,IF
Wu Yanling Y	21178975	Kidney Int	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

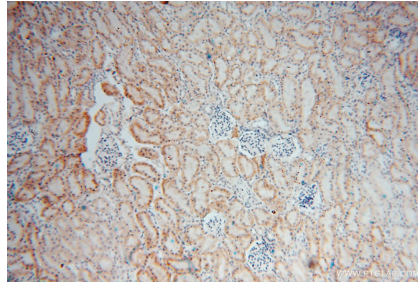
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

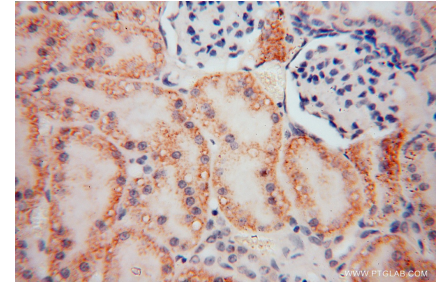
## Selected Validation Data



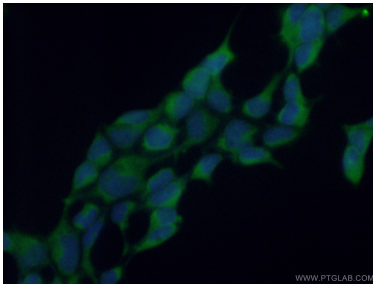
human heart tissue were subjected to SDS PAGE followed by western blot with 15003-1-AP (RENALASE antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



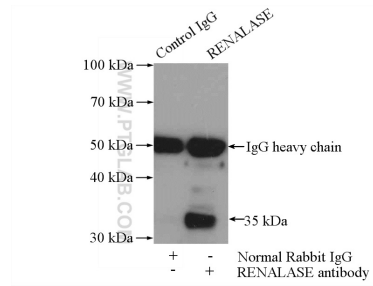
Immunohistochemical analysis of paraffin-embedded human kidney using 15003-1-AP (RENALASE antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 15003-1-AP (RENALASE antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 15003-1-AP (RENALASE antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-RENALASE (IP:15003-1-AP, 4ug; Detection:15003-1-AP 1:500) with HEK-293 cells lysate 2000ug.