For Research Use Only

RENALASE Polyclonal antibody

Catalog Number:15003-1-AP Featured Product 8 Publications

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Basic Information

Catalog Number:
15003-1-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13061

GenBank Accession Number:
BC005364

GeneID (NCBI):
55328

UNIPROT ID:
Q5VYX0

Full Name:
chromosome 10 open reading frame 59

Calculated MW:
38 kDa

Observed MW:
35 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF-P 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF

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 : Caco-2 cells,

IP : HEK-293 cells,

IHC : human kidney tissue,

IF-P : mouse kidney tissue,

IF/ICC : 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

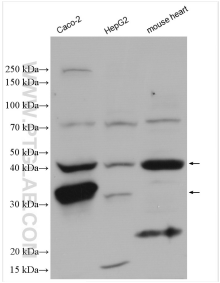
Author	Pubmed ID	Journal	Application
Janete Quelhas-Santos	24599883	Exp Biol Med (Maywood)	WB
Janete Santos	25984079	NDT Plus	WB
Minghao Luo	35898283	Front Cardiovasc Med	WB,IF

Storage

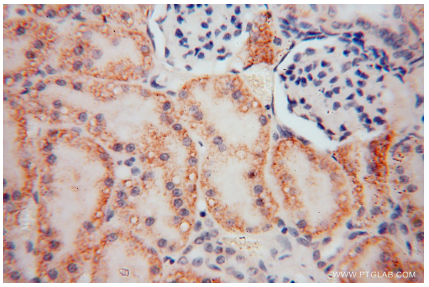
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

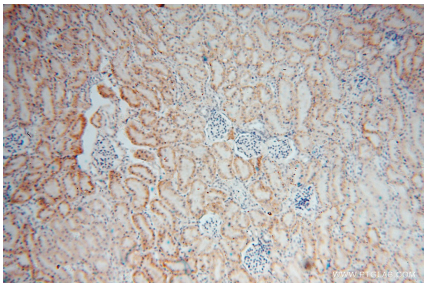
Selected Validation Data



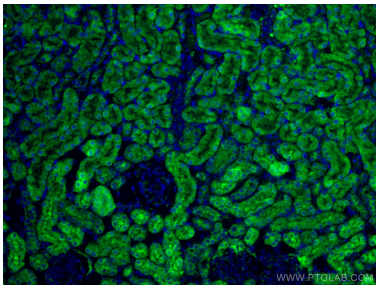
Various lysates were subjected to SDS PAGE followed by western blot with 15003-1-AP (RENALASE antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



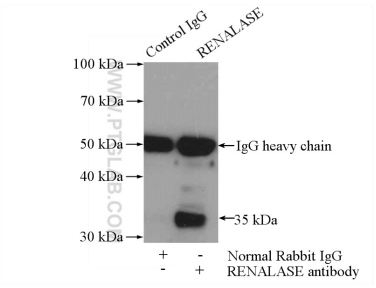
Immunohistochemical analysis of paraffin-embedded human kidney using 15003-1-AP (RENALASE antibody) at dilution of 1:100 (under 40x lens).



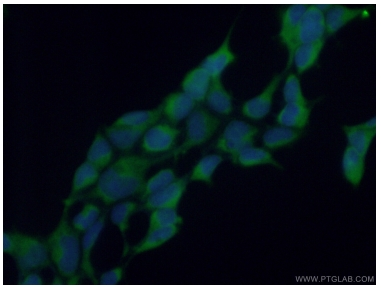
Immunohistochemical analysis of paraffin-embedded human kidney using 15003-1-AP (RENALASE antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using RENALASE antibody (15003-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated 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.



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 Goat Anti-Rabbit IgG(H+L).