

Renalase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58718**Specification**

Renalase Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q5VYX0
Reactivity	Rat, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Renalase
Epitope Specificity	201-300/342
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
SIMILARITY	Belongs to the renalase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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.

Renalase Polyclonal Antibody - Additional Information**Gene ID** 55328**Other Names**

Renalase, 1.6.3.5, Monoamine oxidase-C, MAO-C, RNLS, C10orf59

Target/Specificity

Secreted into the blood by the kidney. Highly expressed in the kidney, expressed at lower level in heart, skeletal muscle and small intestine. Its plasma concentration is markedly reduced in patients with end-stage renal disease, as compared with healthy subjects.

Dilution

WB ~ 1:1000
IHC-P ~ N/A
IHC-F ~ N/A
IF ~ 1:50 ~ 200
E ~ N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Renalase Polyclonal Antibody - Protein Information

Name RNLS

Synonyms C10orf59

Function

Catalyzes the oxidation of the less abundant 1,2-dihydro- beta-NAD(P) and 1,6-dihydro-beta-NAD(P) to form beta-NAD(P)(+). The enzyme hormone is secreted by the kidney, and circulates in blood and modulates cardiac function and systemic blood pressure. 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.

Cellular Location

Secreted.

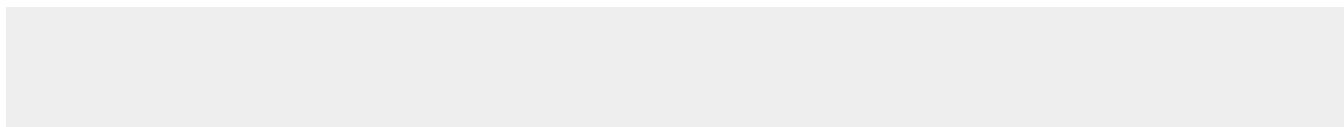
Tissue Location

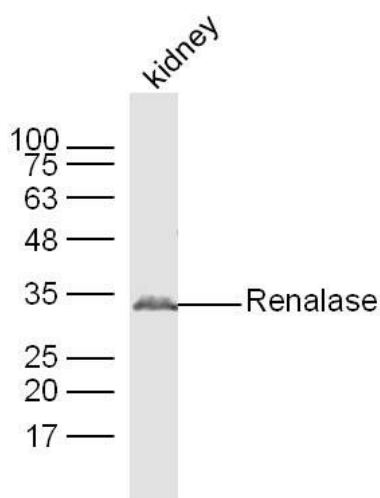
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Renalase Polyclonal Antibody - Protocols

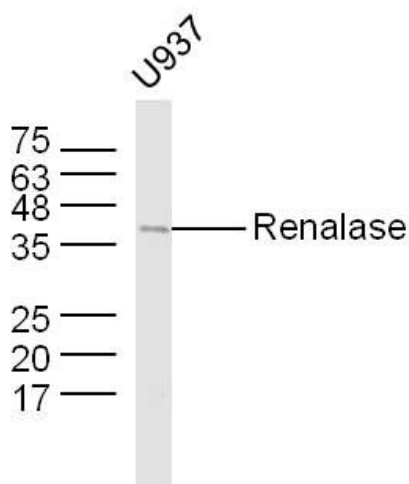
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Renalase Polyclonal Antibody - Images



Sample: Kidney (Mouse) Lysate at 40 ug
Primary: Anti-Renalase (bs-7693R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 36 kD
Observed band size: 35 kD



Sample: U937 Cell (Human) Lysate at 40 ug
Primary: Anti-Renalase (bs-7693R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 36 kD
Observed band size: 36 kD