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Renalase Antibody

Rabbit mAb
Catalog # AP92311

Product Information

Application	WB, IHC
Primary Accession	Q5VYX0
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	MAO C; mMAO C; Renalase; RNLS;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	37847

Additional Information

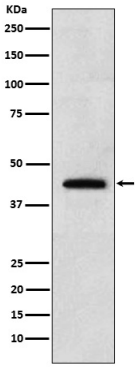
Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Renalase
Description	Probable FAD-dependent amine oxidase secreted by the kidney, which circulates in blood and modulates cardiac function and systemic blood pressure. Degrades catecholamines such as dopamine, norepinephrine and epinephrine in vitro.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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	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.

Images



Western blot analysis of Renalase expression in 293T cell lysate.