

RNLS Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2235a

Product Information

Application	WB, E
Primary Accession	Q5VYX0
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1C11E8
Isotype	IgG1
Calculated MW	37847
Description	Renalase is a flavin adenine dinucleotide-dependent amine oxidase that is secreted into the blood from the kidney
Immunogen	Purified recombinant fragment of human RNLS (AA: 68-242) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	55328
Other Names	Renalase, 1.6.3.5, Monoamine oxidase-C, MAO-C, alpha-NAD(P)H oxidase/anomerase, RNLS, C10orf59
Dilution	WB~~1/500 - 1/2000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RNLS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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 reninase 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.

References

1.Kidney Blood Press Res. 2014;39(1):58-64.2.Ren Fail. 2013;35(5):673-9.

Images

