

RecomAb™

PLN recombinant monoclonal antibody, clone R03-112

Catalog # RAB02001 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PLN.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human PLN.
Theoretical MW (kDa)	Calculated MW: 6 kDa
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunoprecipitation

Gene Info — PLN

Entrez GeneID	5350
Protein Accession#	P26678
Gene Name	PLN
Gene Alias	CMD1P, PLB
Gene Description	phospholamban
Omim ID	172405 609909
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is found as a pentamer and is a major substrate for the cAMP-dependent protein kinase in cardiac muscle. The encoded protein is an inhibitor of cardiac muscle sarcoplasmic reticulum Ca(2+)-ATPase in the unphosphorylated state, but inhibition is relieved upon phosphorylation of the protein. The subsequent activation of the Ca(2+) pump leads to enhanced muscle relaxation rates, thereby contributing to the inotropic response elicited in heart by beta-agonists. The encoded protein is a key regulator of cardiac diastolic function. Mutations in this gene are a cause of inherited human dilated cardiomyopathy with refractory congestive heart failure. [provided by RefSeq]
Other Designations	OTTHUMP00000017092 cardiac phospholamban

Pathway

- [Calcium signaling pathway](#)

Disease

- [Arrhythmias](#)
- [Asthma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)

- [Death](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Long QT syndrome](#)
- [Ventricular Dysfunction](#)