RecomAb™

# PLN (phospho Ser16) recombinant monoclonal antibody, clone R03-1I4

Catalog # RAB02002 Size 100 uL

## Specification

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|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human PLN. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding Ser16 of human PLN. |
| **Theoretical MW (kDa)** | Calculated MW: 6 kDa |
| **Reactivity** | Human, Mouse |
| **Form** | Liquid |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Western Blot (1:500-1:1000)<br>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.<br>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

## Gene Info — PLN

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| **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