



Anti-PLN (N-terminal) polyclonal antibody (DPAB-DC2277)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | 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. |
| Immunogen | A synthetic peptide corresponding to amino acids at N-terminus of human PLN. The sequence is KVQYLTRSAIRR-C |
| Source/Host | Goat |
| Species Reactivity | Human, Rat |
| Purification | Antigen affinity purification |
| Conjugate | Unconjugated |
| Applications | WB (Tissue lysate), ELISA, |
| Format | Liquid |
| Concentration | 0.5 mg/mL |
| Size | 100 µg |
| Buffer | In Tris saline, pH7.3 (0.5% BSA, 0.02% sodium azide) |
| Preservative | 0.02% Sodium Azide |

Storage

Store at -20°C. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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| Gene Name | PLN phospholamban [Homo sapiens (human)] |
| Official Symbol | PLN |
| Synonyms | PLN; phospholamban; PLB; CMD1P; CMH18; cardiac phospholamban; |
| Entrez Gene ID | 5350 |
| Protein Refseq | NP_002658 |
| UniProt ID | P26678 |
| Chromosome Location | 6q22.1 |
| Pathway | Adrenergic signaling in cardiomyocytes; Calcium Regulation in the Cardiac Cell; Calcium signaling pathway; Dilated cardiomyopathy |
| Function | ATPase binding; ATPase inhibitor activity; calcium channel regulator activity; enzyme inhibitor activity |