



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

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

PRODUCT INFORMATION

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

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
