



Anti-PLN (aa 1-30) polyclonal antibody (DPAB-DC2278)

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	PLN (AAH05269, 1 a.a. ~ 30 a.a) partial recombinant protein with GST tag. The sequence is MEKVQYLTRSAIRRASTIEMPQQARQKLQN
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. 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