



## Human PLN blocking peptide (CDBP2290)

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

### PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-Phospholamban/PLN antibody
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. [provided by RefSeq, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

### GENE INFORMATION

Gene Name	<a href="#">PLN phospholamban [ Homo sapiens ]</a>
Official Symbol	PLN

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<b>Synonyms</b>	PLN; phospholamban; PLB; cardiac phospholamban; CMD1P; CMH18;
<b>Entrez Gene ID</b>	<a href="#">5350</a>
<b>mRNA Refseq</b>	<a href="#">NM_002667</a>
<b>Protein Refseq</b>	<a href="#">NP_002658</a>
<b>UniProt ID</b>	P26678
<b>Chromosome Location</b>	6q22.1
<b>Pathway</b>	Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem;
<b>Function</b>	ATPase inhibitor activity; calcium channel regulator activity; protein binding;

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