



# Human PLN blocking peptide (CDBP2290)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Blocking/Immunizing peptide for anti-Phospholamban/PLN antibody
<b>Antigen Description</b>	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]
<b>Species</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Apuri, BL, ELISA
<b>Format</b>	Lyophilized powder
<b>Size</b>	100 µg
<b>Preservative</b>	None
<b>Storage</b>	Shipped at ambient temperature, store at -20°C.

## GENE INFORMATION

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

<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;