

## Anti-Phospho-Cardiac phospholamban/PLN (Ser16, Thr17) Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 6 kDa.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

## Applications

Application:	ELISA,ICC/IF
Recommended	ICC/IF: 1:200-1000; ELISA: 1:10000

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthesized phosphopeptide: human PLB around the phosphorylation site of Ser16 and Thr17. AA range:1-50
Antigen Species:	Human
Uniprot ID:	P26678
Synonyms:	Cardiac phospholamban/PLN (p-S16, T17);Cardiac phospholamban/PLN (p-Ser16, Thr17);p-Cardiac phospholamban/PLN (S16, T17);p-Cardiac phospholamban/PLN (Ser16, Thr17)

## Research Background

phospholamban(PLN) Homo sapiens 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, and also familial hypertrophic cardiomyopathy. [provided by RefSeq, Apr 2016],

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