

Datasheet for ABIN755265

## anti-Phospholamban antibody (AA 1-35) (Biotin)



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### Overview

Quantity:	100 µL
Target:	Phospholamban (PLN)
Binding Specificity:	AA 1-35
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Phospholamban antibody is conjugated to Biotin
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human phospholamban
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Cow, Pig
Purification:	Purified by Protein A.

### Target Details

Target:	Phospholamban (PLN)
Alternative Name:	phospholamban ( <a href="#">PLN Products</a> )
Background:	Synonyms: Cardiac phospholamban, CMD1P, PLB, PLN, PPLA_HUMAN.

## Target Details

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Background: The Sarco(endo)plasmic-reticulum (SER) regulatory protein, Phospholamban (PLB), is a small, plasma membrane-associated protein found in the SER of cardiac, smooth and slow-twitch muscle. Believed to assemble into a pentamer, PLB regulates cardiac contractility and Ca<sup>2+</sup> affinity for cardiac SER Ca<sup>2+</sup> ATPase (SERCA2a). Non-phosphorylated PLB associates with SERCA2a, and inhibits Ca<sup>2+</sup> reuptake into the SER. PLB activation occurs when key Serine/Threonine residues in PLB (Ser-10, Ser-16, Thr-17) are phosphorylated by numerous effectors, which include PKC, PKA, PKG, and CaM kinase. Phosphorylation of PLB causes dissociation from SERCA2a and a subsequent increase in the rate of Ca<sup>2+</sup> reuptake into the SER, which accelerates ventricular relaxation.

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Gene ID: 5350

Pathways: [Negative Regulation of Transporter Activity](#)

## Application Details

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Application Notes: IHC-P 1:200-400  
IHC-F 1:100-500

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C for 12 months.

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Expiry Date: 12 months