

Datasheet for ABIN755267

anti-Phospholamban antibody (AA 1-35) (Cy5)



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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 Cy5
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

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 (PLN Products)
Background:	Synonyms: Cardiac phospholamban, CMD1P, PLB, PLN, PPLA_HUMAN.

Target Details

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 Ca²⁺ affinity for cardiac SER Ca²⁺ ATPase (SERCA2a). Non-phosphorylated PLB associates with SERCA2a, and inhibits Ca²⁺ 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 Ca²⁺ reuptake into the SER, which accelerates ventricular relaxation.

Gene ID: 5350

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

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

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

Preservative: ProClin

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

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months