Datasheet for ABIN7599309

anti-Phospholamban antibody (AA 1-36)

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Overview

Quantity:	100 µg
Target:	Phospholamban (PLN)
Binding Specificity:	AA 1-36
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Phospholamban antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Phospholamban/PLN Antibody Picoband®
Immunogen:	E.coli-derived human Phospholamban/PLN recombinant protein (Position: M1-C36).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Phospholamban/PLN Antibody Picoband® (ABIN7599309). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Phospholamban (PLN)
Alternative Name:	PLN (PLN Products)
Background:	Synonyms: Allograft inflammatory factor 1,AIF-1,Ionized calcium-binding adapter molecule 1,Protein G1,AIF1,G1, IBA1, Tissue Specificity: Detected in T-lymphocytes and peripheral blood mononuclear cells. . Background: Phospholamban is a 52 amino acid integral membrane protein that regulates the Ca2+ pump in cardiac muscle and skeletal muscle cells. 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. Phospholamban is also expressed in slow-twitch skeletal muscle and some smooth muscle cells. It is observed that human ventricle and quadriceps displayed high levels of phospholamban transcripts and proteins, with markedly lower expression observed in smooth muscles, while the right atrium also expressed low levels of phospholamban. The structure of the human phospholamban gene closely resembles that reported for chicken, rabbit, rat, and mouse. Comparison of the human to other mammalian phospholamban genes indicated a marked conservation of sequence for at least 217 bp upstream of the transcription start site.
Molecular Weight:	23 kDa
Gene ID:	5350
UniProt:	P26678
Pathways:	Negative Regulation of Transporter Activity

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Rodriguez P, Kranias EG (December 2005). "Phospholamban: a key determinant of cardiac function and dysfunction". Arch Mal Coeur Vaiss 98 (12): 1239-43. 2. McTiernan, C. F., Frye, C. S., Lemster, B. H., Kinder, E. A., Ogletree-Hughes, M. L., Moravec, C. S., Feldman, A. M. : The human phospholamban gene: structure and expression. J. Molec. Cell Cardiol. 31: 679-692, 1999.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.