

Datasheet for ABIN285884

anti-Phospholamban antibody (phosphospecific)[Go to Product page](#)**1** Publication

Overview

Quantity:	100 µg
Target:	Phospholamban (PLN)
Binding Specificity:	AA 14-25, phosphospecific
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Phospholamban antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Phospho-Phospholamban antibody was raised in rabbit using a synthetic peptide conjugated to KLH, corresponding to amino acids 14-25 of human cardiac phospholamban (RA[pS]TIEMPQAR-C) as the immunogen.
Isotype:	IgG
Cross-Reactivity:	Cow (Bovine), Dog (Canine), Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	Bovine, Predicted to cross-react with human, mouse, rat, rabbit, pig and dog. 1 mg/ml
Purification:	Protein A affinity chromatography

Target Details

Target:	Phospholamban (PLN)
---------	---------------------

Target Details

Alternative Name:	Phospholamban (PLN Products)
Background:	Phospholamban (PLB) is a 52 amino acid phosphoprotein which regulates the calcium pump of cardiac sarcoplasmic reticulum (SR). PLB is an oligomer of five identical subunits each having a cytoplasmic and transmembrane domain. Following adrenergic stimulation of cardiac muscle, PLB is phosphorylated at Ser16 and at Thr17 which is correlated with stimulation of calcium transport activity across the SR membrane and relaxation of cardiac fibers.
Pathways:	Negative Regulation of Transporter Activity

Application Details

Application Notes:	Optimal conditions should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	100 mM Tris-glycine, pH 7.4, with 150 M NaCl, 0.05 % NaN ₃ and 30 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles. Dilute only prior to immediate use.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20 °C.

Publications

Product cited in:	Kushnir, Santulli, Reiken, Coromilas, Godfrey, Brunjes, Colombo, Yuzefpolskaya, Sokol, Kitsis, Marks: "Ryanodine Receptor Calcium Leak in Circulating B-Lymphocytes as a Biomarker in Heart Failure." in: Circulation , Vol. 138, Issue 11, pp. 1144-1154, (2019) (PubMed).
-------------------	--