

PLB Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP07256
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human PLB. AA range:1-50
Mol wt	6109
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	IF, ELISA
Concentration	1 mg/ml
Full name	PLB Antibody
Synonyms	PLN; PLB; Cardiac phospholamban; PLB

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The protein encoded by PLN (phospholamban) 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 PLN are a cause of inherited human dilated cardiomyopathy with refractory congestive heart failure, and also familial hypertrophic cardiomyopathy.

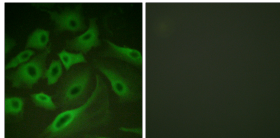
Recommended Dilution

IF: 1: 200 - 1: 1000

ELISA: 1: 10000

Not yet tested in other applications.

Images



Immunofluorescence analysis of HeLa cells, using PLB Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year