# Phospho-PLN-S16 Rabbit pAb

Catalog No.: AP0907 2 Publications



#### **Basic Information**

**Observed MW** 12KkDa/17kDa/35kDa

Calculated MW 6kDa

Category Primary antibody

Applications WB,ELISA

Cross-Reactivity Human, Mouse, Rat

### Background

The protein encoded by this gene 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 this gene are a cause of inherited human dilated cardiomyopathy with refractory congestive heart failure, and also familial hypertrophic cardiomyopathy.

#### **Recommended Dilutions**

WB	1:500 - 1:2000
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## **Immunogen Information**

**Gene ID** 5350

Swiss Prot P26678

#### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

PLB; CMD1P; CMH18; Phospho-PLN-S16

#### Contact

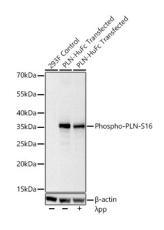
6	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
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### **Product Information**

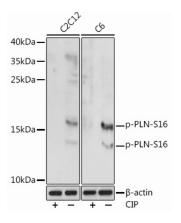
**Source** Rabbit **Isotype** IgG Purification Affinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.



Western blot analysis of lysates from 293F cells using Phospho-PLN-S16 Rabbit pAb (AP0907) at 1:1000 dilution incubated overnight at 4°C. 293F cells transfected with PLN were treated with  $\lambda$ -PP mixed solution (1 $\mu$ L) at 30°C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30  $\mu$ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Western blot analysis of various lysates using Phospho-PLN-S16 Rabbit pAb (AP0907) at 1:1000 dilution. C2C12 cells were treated with CIP(20uL/400ul) at 37°C for 1 hour. C6 cells were treated with CIP(20uL/400ul) at 37°C for 1 hour. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% BSA.

Detection: ECL Basic Kit (RM00020). Exposure time: 10s.