

**Anti-Phospho-Phospholamban (S16) Rabbit Monoclonal Antibody**  
Catalog # ABO16784**Specification****Anti-Phospho-Phospholamban (S16) Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P26678</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Phospho-Phospholamban (S16) Rabbit Monoclonal Antibody . Tested in WB applications. This antibody reacts with Human, Mouse.

**Anti-Phospho-Phospholamban (S16) Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 5350

**Other Names**

Cardiac phospholamban, PLB, PLN ([HGNC:9080](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9080)), PLB

**Application Details**

WB 1:500-1:2000

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Phospho-Phospholamban (S16)

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Phospho-Phospholamban (S16) Rabbit Monoclonal Antibody - Protein Information**

**Name** PLN ([HGNC:9080](#))

**Synonyms** PLB

### Function

Reversibly inhibits the activity of ATP2A2 in cardiac sarcoplasmic reticulum by decreasing the apparent affinity of the ATPase for Ca(2+) (PubMed:<a href="http://www.uniprot.org/citations/28890335" target="\_blank">28890335</a>). Modulates the contractility of the heart muscle in response to physiological stimuli via its effects on ATP2A2. Modulates calcium re-uptake during muscle relaxation and plays an important role in calcium homeostasis in the heart muscle. The degree of ATP2A2 inhibition depends on the oligomeric state of PLN. ATP2A2 inhibition is alleviated by PLN phosphorylation. Controls intracellular Ca(2+) levels in elongated spermatids. May play a role in germ cell differentiation (By similarity).

### Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein. Sarcoplasmic reticulum membrane; Single-pass membrane protein. Mitochondrion membrane {ECO:0000250|UniProtKB:A4IFH6}; Single-pass membrane protein. Membrane {ECO:0000250|UniProtKB:P61014}; Single-pass membrane protein. Note=Colocalizes with HAX1 at the endoplasmic reticulum (PubMed:17241641). Colocalizes with DMPK a the sarcoplasmic reticulum (PubMed:15598648).

### Tissue Location

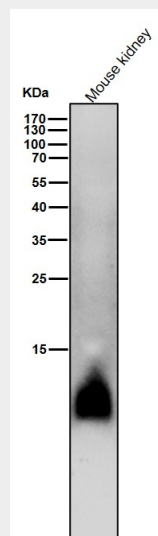
Heart muscle (at protein level).

## Anti-Phospho-Phospholamban (S16) Rabbit Monoclonal Antibody - Protocols

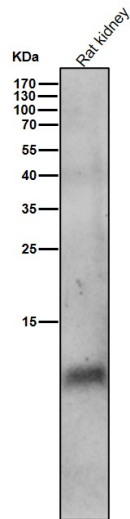
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Phospho-Phospholamban (S16) Rabbit Monoclonal Antibody - Images



All lanes use the Antibody at 1:2W dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:2W dilution for 1 hour at room temperature.