

## Anti-Phospho-Phospholamban (Ser16) Rabbit Monoclonal Antibody

### Introduction

Reversibly inhibits the activity of ATP2A2 in cardiac sarcoplasmic reticulum by decreasing the apparent affinity of the ATPase for  $\text{Ca}^{2+}$ . 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.

### Product parameters

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| Alternative Names | PLN; PLB; Cardiac phospholamban; PLB                                                          |
| Gene ID           | 5350                                                                                          |
| Gene Name         | PLN                                                                                           |
| SwissProt ID      | P26678                                                                                        |
| Host              | Rabbit                                                                                        |
| Reactivity        | Human, Mouse                                                                                  |
| Molecular Weight  | Calculated MW: 6 kDa; Observed MW: 12,24 kDa                                                  |
| Conjugation       | Unconjugated                                                                                  |
| Ex                | -                                                                                             |
| Em                | -                                                                                             |
| Modification      | Phosphorylated                                                                                |
| Clonality         | IgG                                                                                           |
| Isotype           | Monoclonal Antibody                                                                           |
| Clonality No.     | AP-12B1G2                                                                                     |
| Form              | Liquid                                                                                        |
| Concentration     | See label                                                                                     |
| Carrier           | Carrier Not Free                                                                              |
| Immunogen         | A synthetic phosphopeptide corresponding to residues surrounding Ser16 of human Phospholamban |
| Purification      | Affinity Purified                                                                             |
| Buffer System     | 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA.       |
| Application       | WB                                                                                            |
| Dilution Ratio    | WB: 1/500-1/1000                                                                              |
| Research Field    | Signal Transduction                                                                           |

|                    |                                  |
|--------------------|----------------------------------|
| Product Categories | Primary antibody                 |
| Shipping           | Blue ice                         |
| Storage            | -20°C                            |
| Expiration Date    | 12 months                        |
| Note               | Please avoid freeze-thaw cycles. |



## Protocol

Configure the product according to the application range and recommended dilution ratio.

**\*Note:** The primary antibody dilution buffer options: WB - Primary Antibody Dilution Buffer (Cat. #: K1200, Not for HRP/AP conjugated antibodies), Immunostaining - Immunol Staining Primary Antibody Dilution Solution (Cat. #: K4655).

## Note

1. This product is for scientific research use only.



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