10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PLN / Phospholamban Antibody (N-Terminus)

Goat Polyclonal Antibody
Catalog # ALS15382

Specification

PLN / Phospholamban Antibody (N-Terminus) - Product Information

Application	**WB, IHC**
Primary Accession	P26678
Reactivity	**Human, Mouse, Rat, Rabbit, Monkey, Pig, Horse, Bovine, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**6kDa KDa**

PLN / Phospholamban Antibody (N-Terminus) - Additional Information

Gene ID 5350

Other Names
Cardiac phospholamban, PLB, PLN, PLB

Target/Specificity
Human PLN / Phospholamban.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
PLN / Phospholamban Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PLN / Phospholamban Antibody (N-Terminus) - 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:28890335). 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).

PLN / Phospholamban Antibody (N-Terminus) - Protocols

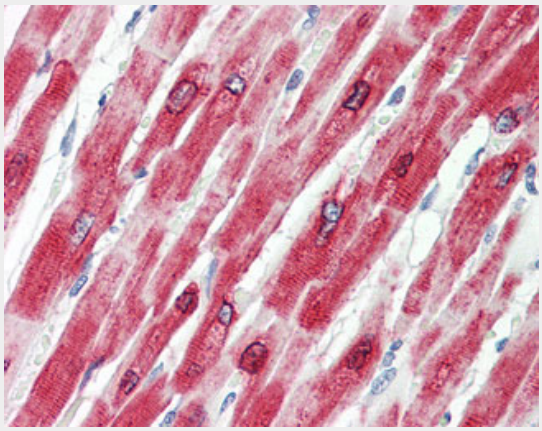
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PLN / Phospholamban Antibody (N-Terminus) - Images



PLN antibody (0.03 ug/ml) staining of Human Heart lysate (35 ug protein/ml in RIPA buffer).



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Anti-PLN / Phospholamban antibody IHC of human heart.

PLN / Phospholamban Antibody (N-Terminus) - Background

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PLN / Phospholamban Antibody (N-Terminus) - References

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