

Phospholamban / PLN Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF3279a**Specification**

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

Application	WB
Primary Accession	P26678
Other Accession	NP_002658.1 , 5350 , 64672 (rat)
Reactivity	Human, Rat
Predicted	Pig, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	6109

Phospholamban / PLN Antibody (N-Term) - Additional Information**Gene ID** 5350**Other Names**

Cardiac phospholamban, PLB, PLN, PLB

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

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

Phospholamban / PLN Antibody (N-Term) - 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 at the sarcoplasmic reticulum (PubMed:15598648).

Tissue Location

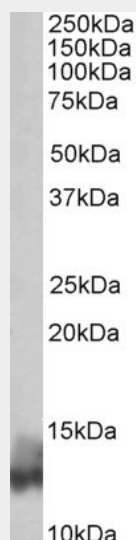
Heart muscle (at protein level).

Phospholamban / PLN Antibody (N-Term) - 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](#)

Phospholamban / PLN Antibody (N-Term) - Images



AF3279a (0.03 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Phospholamban / PLN Antibody (N-Term) - References

The role of Lamin A/C mutations in Danish patients with idiopathic dilated cardiomyopathy. Møller DV, Pham TT, Gustafsson F, Hedley P, Ersbøll MK, Bundgaard H, Andersen CB, Torp-Pedersen C,

Køber L, Christiansen M. European journal of heart failure : journal of the Working Group on Heart Failure of the European Society of Cardiology 2009 Nov 11 (11): 1031-5. PMID: 19875404