

Product Datasheet

Phospholamban Antibody - BSA Free NBP2-19807

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP2-19807

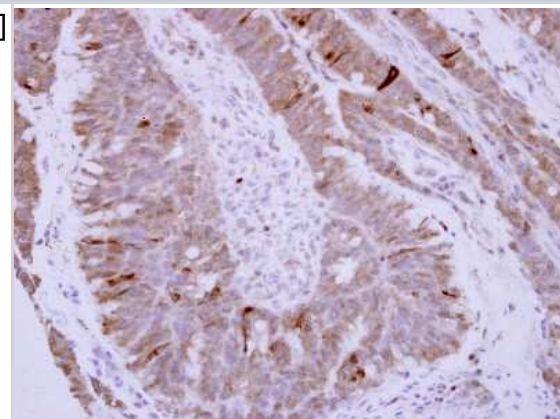
Phospholamban Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	6 kDa
Product Description	
Description	Novus Biologicals Rabbit Phospholamban Antibody - BSA Free (NBP2-19807) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Phospholamban Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5350
Gene Symbol	PLN
Species	Human, Mouse, Rat, Porcine
Reactivity Notes	Use in Porcine reported in scientific literature (PMID:33863453).
Immunogen	Full length human Phospholamban Recombinant protein.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000-1:10000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID: 33998164), Immunohistochemistry-Paraffin 1:100-1:1000

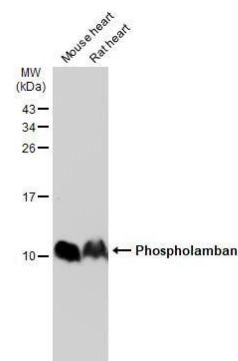


Images

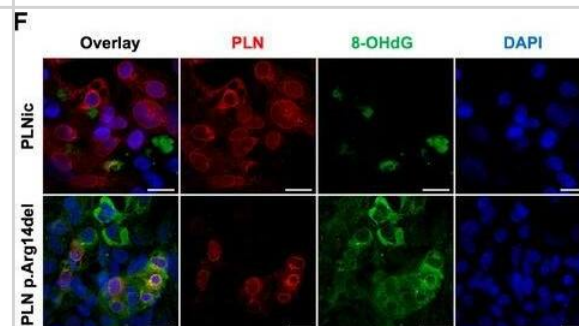
Immunohistochemistry-Paraffin: Phospholamban Antibody [NBP2-19807] - Human colon carcinoma, using phospholamban antibody at 1:250 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



Various tissue extracts (50 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Phospholamban antibody (NBP2-19807) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Mitochondrial respiration and detection of oxidative stress
 Oxygen consumption rate in PLN^{ic} versus PLN p.Arg14del. Mean +/- SEM.
 B-D Quantification of basal respiration (B), maximal respiration (C) and ATP production (D). Mean +/- SEM, n = 6 biological replicates (each biological replicate represents the average of 12 wells of a 96-well Seahorse plate), Mann-Whitney U-test, *P < 0.05.
 E Fluorometric detection of ROS content in complete medium supernatant or lysed cells after 24 h of EHT culture, n = 8 EHTs, each circle: Mean of 6 technical replicates, mean +/- SEM, Mann-Whitney U-test, *P < 0.05.
 F Immunofluorescence of 2D hiPSC-CM from PLN^{ic} and PLN p.Arg14del for PLN (red), 8-OHdG (green) and DAPI-stained nuclei; scale bar 20 um.
 G Western immunoblot analysis of 2D hiPSC-CM from PLN^{ic} and PLN p.Arg14del with an anti-2,4-dinitrophenylhydrazine antibody (DNPH) that detects the presence of carbonyl groups modified by 2,4-dinitrophenylhydrazine as a surrogate marker of irreversibly oxidized proteins, n = 8 replicates per genotype, cMyBP-C was used as a loading control. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33998164>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Roths M, Rudolph T, Freestone A et al. Environment-induced heat stress causes ventricular-dependent biochemical changes in the heart in female pigs *Physiological Reports* 2025-06-07 [PMID: 40483549]

Cuello F, Knaust AE, Saleem U et al. Impairment of the ER/mitochondria compartment in human cardiomyocytes with PLN p.Arg14del mutation *EMBO molecular medicine* 2021-05-16 [PMID: 33998164] (ICC/IF, Human)

Rudolph T, Mayorga E, Roths M et al. The effect of Mitoquinol (MitoQ) on heat stressed skeletal muscle from pigs, and a potential confounding effect of biological sex *Journal of Thermal Biology* 2021-04-01 [PMID: 33863453] (WB, Porcine)

Stathopoulou K, Schobesberger S, Bork NI et al. Divergent off-target effects of RSK N-terminal and C-terminal kinase inhibitors in cardiac myocytes *Cell. Signal.* 2019-07-22 [PMID: 31344438] (WB, Rat, Mouse)





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Products Related to NBP2-19807

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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