

bs-4197R**[Primary Antibody]****phospholamban Rabbit pAb**

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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ELISA (1:5000-10000) Reactivity: (predicted: Human, Mouse, Rat, Pig, Cow) Predicted MW.: 5.7 kDa Subcellular Location: Cell membrane ,Cytoplasm
Clonality: Polyclonal		
GeneID: 5350	SWISS: P26678	
Target: phospholamban		
Immunogen: KLH conjugated synthetic peptide derived from human phospholamban: 1-35/52.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: The Sarco(endo)plasmic-reticulum (SER) regulatory protein, Phospholamban (PLB), is a small, plasma membrane-associated phospho-protein found in the SER of cardiac, smooth and slow-twitch muscle. Believed to assemble into a pentamer, PLB regulates cardiac contractility and Ca ²⁺ affinity for cardiac SER Ca ²⁺ ATPase (SERCA2a). Non-phosphorylated PLB associates with SERCA2a, and inhibits Ca ²⁺ reuptake into the SER. PLB activation occurs when key Serine/Threonine residues in PLB (Ser-10, Ser-16, Thr-17) are phosphorylated by numerous effectors, which include PKC, PKA, PKG, and CaM kinase. Phosphorylation of PLB causes dissociation from SERCA2a and a subsequent increase in the rate of Ca ²⁺ reuptake into the SER, which accelerates ventricular relaxation.		

— SELECTED CITATIONS —

- **[IF=2.7]** Qingjing Gao. et al. Seasonal changes in endoplasmic reticulum stress and steroidogenesis in the ovary of the wild ground squirrels (*Citellus dauricus* Brandt). GEN COMP ENDOCR. 2023 Nov;343:114368 Other ;. 37604348