bs-10999R **[Primary Antibody]**

phospho-PLB (Ser16+Thr17) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5350 **SWISS:** P26678

Target: PLB (Ser16+Thr17)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human PLB around the phosphorylation site of Ser16+Thr17: RA(p-S)(p-T)IE.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
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 Ca2+ affinity for cardiac SER Ca2+ ATPase (SERCA2a). Non-phosphorylated PLB associates with SERCA2a, and inhibits Ca2+ 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 Ca2+ reuptake into the SER, which accelerates ventricular relaxation.

Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

Reactivity: (predicted: Human, Mouse, Rat, Pig, Sheep, Cow, Dog)

Predicted MW.: 6 kDa

Subcellular Location: Cell membrane ,Cytoplasm