

bs-6693R**[Primary Antibody]****Bioss**
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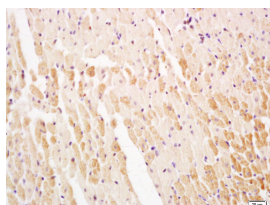
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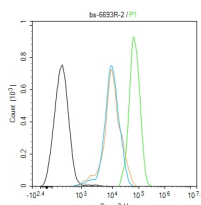
400-901-9800

Serca2/SERCA2 ATPase Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (2ug/Test)
Clonality: Polyclonal		
GeneID: 488	SWISS: P16615	
Target: Serca2/SERCA2 ATPase		
Immunogen: KLH conjugated synthetic peptide derived from human Serca2/SERCA2 ATPase: 151-250/1042.		Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Cow, Dog, Horse)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 115 kDa
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.		Subcellular Location: Cytoplasm
Background: ATP dependent calcium pumps are responsible, in part, for the maintenance of low cytoplasmic free calcium concentrations. The ATP pumps that reside in intracellular organelles are encoded by a family of structurally related enzymes, termed the sarcoplasmic or endoplasmic reticulum calcium (SERCA) ATPases. The SERCA1 gene is exclusively expressed in type II (fast) skeletal muscle. The SERCA2 gene is subject to tissue dependent processing which is responsible for the generation of SERCA2a muscle-specific form expressed in type I (slow) skeletal, cardiac and smooth muscle and the SERCA2b isoform expressed in all cell types. The SERCA3 gene is not as well characterized and is found in non-muscle cells.		

— VALIDATION IMAGES —

Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Serca2/SERCA2 ATPase Polyclonal Antibody, Unconjugated(bs-6693R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (black line) :Hela. Primary Antibody (green line): Rabbit Anti-Serca2 antibody (bs-6693R) Dilution:2ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=5.6]** Wenxia Li. et al. Transcriptome Analysis Revealed Potential Genes of Skeletal Muscle Thermogenesis in Mashen Pigs and Large White Pigs under Cold Stress. INT J MOL SCI. 2023 Jan;24(21):15534 WB ;Porcine. 37958518

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.