

bs-17067R**[Primary Antibody]****Kir2.1 Rabbit pAb****BioSS**
ANTIBODIES

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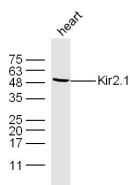
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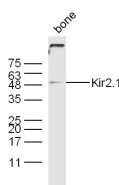
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— DATASHEET —

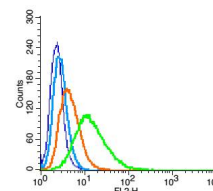
Host: Rabbit Clonality: Polyclonal GeneID: 3759 Target: Kir2.1 Immunogen: KLH conjugated synthetic peptide derived from human Kir2.1: 31-130/427. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. Mutations in this gene have been associated with Andersen syndrome, which is characterized by periodic paralysis, cardiac arrhythmias, and dysmorphic features. [provided by RefSeq, Jul 2008]	Isotype: IgG SWISS: P63252	Applications: WB (1:500-2000) Flow-Cyt (1µg/Test) Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse) Predicted MW.: 48 kDa Subcellular Location: Cell membrane
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— VALIDATION IMAGES —

Sample: heart (Mouse) Lysate at 40 ug Primary:
Anti-Kir2.1(bs-17067R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 48 kD
Observed band size: 48 kD



Sample: Bone (Mouse) Lysate at 40 ug Primary:
Anti-Kir2.1 (Bs- 17067R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 48 kD
Observed band size: 48 kD



Blank control(blue): RSC96(fixed with 2% paraformaldehyde (10 min)). Primary Antibody:Rabbit Anti- Kir2.1 antibody(bs-17067R), Dilution: 0.2µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange), used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

— SELECTED CITATIONS —

- **[IF=7.5]** Xiaomin Yang. et al. Cinnamaldehyde prevents coronary artery spasm by down-regulating the function and expression of voltage-gated Ca²⁺ channels and Ca²⁺-activated Cl⁻ channels in the arterial smooth muscle cells. BIOMED PHARMACOTHER. 2025 Jul;188:118213 IF ;Rat. 40449169
- **[IF=5.9]** Zhao, Jing, et al. "Chronic obstructive sleep apnea causes atrial remodeling in canines: mechanisms and implications." Basic Research in Cardiology 109.5 (2014): 1-13. WB ;Dog. 25015734
- **[IF=6.2]** Xiaomin Yang. et al. Crotonaldehyde paralyzes arteries by inducing impairment of ion channels, vascular histiocytic injury, overproduction of reactive oxygen species, mitochondrial damage, and autophagy. ECOTOX ENVIRON

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

SAFE. 2024 Oct;285:117083 IF ;Rat. 39317073

- **[IF=3.499]** Zhan C et al. Rotenone and 3-bromopyruvate toxicity impacts electrical and structural cardiac remodeling in rats. Toxicol Lett. 2019 Oct 1. pii: S0378-4274(19)30295-4. WB,IHC ;Rat. 31585160
- **[IF=1.396]** Fang W et al. Lipopolysaccharides increase Kir2. 1 expression in lung endothelial cells. Int J Clin Exp Pathol 2018;11(6):2959-2967 WB ;Mouse. ISSN:1936-2625/IJCEP0074619