bs-3762R **[Primary Antibody]**

Kv4.3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3752 **SWISS:** Q9UK17

Target: Kv4.3

Immunogen: KLH conjugated synthetic peptide derived from human Kv4.3.: 311-410/655.

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: Voltage gated potassium (Kv) channels represent the most complex class of voltage gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence related potassium channel genes (shaker, shaw, shab, and shal) have been identified in Drosophila, and each has been shown to have human homologs. This protein is a member of the potassium channel, voltage gated, shal related subfamily, members of which form voltage activated A type potassium ion channels and are prominent in the repolarization phase of the action potential. This member includes two isoforms with different sizes, which are encoded by alternatively spliced transcript variants of this gene.

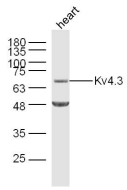
Applications: **WB** (1:500-2000)

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

Predicted MW.: 73 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-Kv4.3 (bs-3672R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 73 kD Observed band size: 70 kD

SELECTED CITATIONS

- **[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=3.4]** Yiqian Hu. et al. NBQX mediates ventricular fibrillation susceptibility in rat models of anxiety via the Nrf2/HO-1 pathway. HELIYON. 2024 Sep;10: WB ;Rat. 39296140