bs-11630R **[Primary Antibody]**

HCN2 + HCN4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 610 **SWISS:** Q9UL51

Target: HCN2 + HCN4

Immunogen: KLH conjugated synthetic peptide derived from human HCN2 + HCN4: 151-250/889.

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: Hyperpolarization-activated, cyclic nucleotide-binding channels (HCN) are voltage-gated cation channels that are activated by direct binding of intracellular cyclic nucleotides. The HCN family consists of four members (HCN1–4), each with a core transmembrane segment domain and a carboxy-terminal 120 amino-acid cyclic nucleotide-binding domain motif (1). HCN channels are expressed in the brain, heart, thalamus and testis (1). The pacemaker properties of HCN channels contribute to spontaneous rhythmic activity in the brain and heart (1). The genes encoding human HCN1 and HCN2 map to chromosomes 5 and 19p13.3, respectively (2,3). The genes encoding HCN3 and HCN4 map to chromosomes 1q21.3 and 15q24-q25, respectively (4,5).

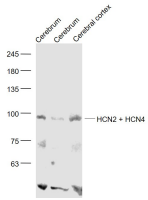
Applications: **WB** (1:500-2000)

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

Predicted MW.: 97+129 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Cerebrum (Mouse) Lysate at 40 ug Cerebrum (Rat) Lysate at 40 ug Cerebral cortex (Mouse) Lysate at 40 ug Primary: Anti- HCN2 + HCN4 (bs-11630R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 97/129 kD Observed band size: 97 kD

SELECTED CITATIONS

- **[IF=1.468]** Fei-Fei Wang. et al. Aging-induced atrial fibrosis in If current change and its effect on atrial fibrillation in dogs. ANN NONINVAS ELECTRO. 2022 Apr 11 WB ;Mouse. 35403309