bs-1691R **[Primary Antibody]**

HCN4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 10021 **SWISS:** Q9Y3Q4

Target: HCN4

Immunogen: KLH conjugated synthetic peptide derived from human HCN4: 501-600/1203. < Cytoplasmic >

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: HCN4 is a member of the family of hyperpolarization activated and cyclic nucleotide gated (HCN) channels. HCN currents have been linked to pacemaker activity in the heart and brain, resting potential control, as well as neuronal plasticity. It has been shown that HCN4 channels function as receptors for sour taste, and are associated with pacemaker potential generation in the sinoatrial node.

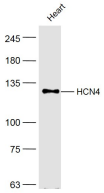
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

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

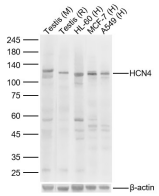
Predicted MW.: 129 kDa

Subcellular Location: Cell membrane

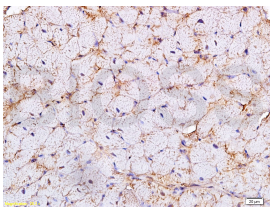
VALIDATION IMAGES



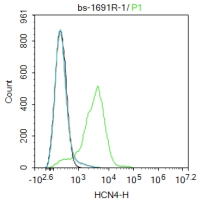
Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-HCN4 (bs-1691R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 129 kD Observed band size: 129 kD



Sample: Lane 1: Mouse Testis Lysates Lane 2: Rat Testis Lysates Lane 3: Human HL-60 cell Lysates Lane 4: Human MCF-7 cell Lysates Lane 5: Human A549 cell Lysates Primary: Anti-HCN4 (bs-1691R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 129kDa Observed band size: 129kDa



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-HCN4 Polyclonal Antibody, Unconjugated(bs-1691R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:MCF-7. Primary Antibody (green line): Rabbit Anti-HCN4 antibody (bs-1691R) Dilution: 1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control （orange line） : Normal Rabbit IgG Protocol The cells were 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=1.89]** Li et al. Association between reversal in the expression of hyperpolarization-activated cyclic nucleotide-gated (HCN) channel and age-related atrial fibrillation. (2014) Med.Sci.Monit. 20:2292-7 WB ;Dog. 25404650
- **[IF=0]** Li, Yao-Dong, et al. "Association between Reversal in the Expression of Hyperpolarization-Activated Cyclic Nucleotide-Gated (HCN) Channel and Age-Related Atrial Fibrillation." American Journal of Case Reports 20 (2014): 2292-2297. WB ;="". 25404650