**bs-9858R** **[ Primary Antibody ]**

# HCN2 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 610 **SWISS:** Q9UL51

**Target:** HCN2

**Immunogen:** KLH conjugated synthetic peptide derived from human HCN2: 288-350/889. < Extracellular >

**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)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:50-200)
**ICC/IF** (1:100-500)
**ELISA** (1:5000-10000)

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

**Predicted MW.:** 97 kDa

**Subcellular Location:** Cell membrane

## SELECTED CITATIONS


- **[IF=2.733]** Bei Miao. et al. Protective effect of HCN2-induced SON sensitization on chronic visceral hypersensitivity in neonatal-CRD rat model. Brain Res. 2021 Sep;1767:147538 IF ;Rat. 34052259
- **[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