

# 环化核苷酸调控阳离子通道蛋白亚型 24 抗体

产品货号： mlR11630

英文名称： HCN2 + HCN4

中文名称： 环化核苷酸调控阳离子通道蛋白亚型 2/4 抗体

别名： HCN2+HCN4; HCN2 / HCN4; HCN2+4; HCN2/4; BCNG 2; Brain cyclic nucleotide gated channel 2; HAC 1; HCN 4; HCN 2; Hyperpolarization activated cyclic nucleotide gated potassium channel 4; HCN2\_HUMAN; HCN4\_HUMAN.

研究领域： 心血管 细胞生物 神经生物学 信号转导 通道蛋白

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Chicken, Pig, Cow, Rabbit, Sheep,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500  
(石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 97+129kDa

细胞定位： 细胞膜

性状： Lyophilized or Liquid

浓度： 1mg/ml

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

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : Hyperpolarization activated cation channels of the HCN gene family such as HCN2, contribute to spontaneous rhythmic activity in both heart and brain. HCN2 is a member of a family of pacemaker channels activated by hyperpolarization and regulated by cyclic nucleotides. HCN1 and HCN2 play an important role for motor learning and neuronal integration by cerebellar Purkinje cells; as well as, shaping autonomous activity of single neurons and the periodicity of network oscillations. HCN2 is highly abundant in mamillary bodies, pontine nucleus, ventral cochlear nucleus, and nucleus of the trapezoid body. HCN4 is another member of the family of hyperpolarization activated and cyclic nucleotide gated 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.

#### Function:

Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Produces a large instantaneous current. Activated by cAMP. Modulated by intracellular chloride ions and pH; acidic pH shifts the activation to more negative voltages

#### Subunit:

The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming subunits. Heteromultimer with HCN1. Interacts with KCNE2

**Subcellular Location:**

Membrane; Multi pass membrane protein.

**Tissue Specificity:**

Highly expressed throughout the brain. Detected at low levels in heart.

**Similarity:**

Belongs to the potassium channel HCN family.

Contains 1 cyclic nucleotide-binding domain.

**SWISS:**

Q9UL51

**Gene ID:**

610

**Important Note:**

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

产品图片

