

## 电压门控钾通道蛋白 1 抗体

产品货号： mIR8691

英文名称： KCNAB1/Kv beta 1

中文名称： 电压门控钾通道蛋白 1 抗体

别名： hKvb3; hKvBeta3; K(+) channel subunit beta-1; KCAB1\_HUMAN; KCNA1B; KCNAB1; KV-BETA-1; Kvb1.3; Voltage-gated potassium channel beta-1 subunit; Voltage-gated potassium channel subunit beta-1.

研究领域： 细胞生物 神经生物学 通道蛋白

抗体来源： Rabbit

克隆类型： Polyclonal

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

产品应用： WB=1:500-2000 ELISA=1:500-1000

not yet tested in other applications.

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

分子量：47kDa

细胞定位：细胞浆

性状：Lyophilized or Liquid

浓度：1mg/ml

免疫原：KLH conjugated synthetic peptide derived from human KCNAB1/Kv beta 1:131-230/419

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：Voltage-gated K<sup>+</sup> channels in the plasma membrane control the repolarization and the frequency of action potentials in neurons, muscles and other excitable cells. The KV gene family encodes more than 30

proteins that comprise the subunits of the K<sup>+</sup> channels, and they vary in their gating and permeation properties, subcellular distribution and expression patterns. Functional KV channels assemble as tetramers consisting of pore-forming  $\alpha$  subunits (KV), which include the KV1, KV2, KV3 and KV4 proteins, and accessory or KV-subunits that modify the gating properties of the coexpressed KV subunits. KV $\beta$ , also known as KCNAB1 (potassium voltage-gated channel, shaker-related subfamily, beta member 1), is a 419 amino acid accessory K<sup>+</sup> channel protein that exists as three alternatively spliced isoforms and regulates the activity of the pore-forming  $\alpha$  subunit. It is expressed in brain, with highest levels detected in caudate nucleus, hippocampus and thalamus.

**Function:**

Accessory potassium channel protein which modulates the activity of the pore-forming alpha subunit. All three isoforms alter the functional properties of Kv1.4 and Kv1.5. Isoform KvB1.2 has no effect on Kv1.1, Kv1.2 or Kv2.1.

**Subunit:**

Forms heteromultimeric complex with alpha subunits. Interacts with SQSTM1 (By similarity). Part of a complex containing KCNA1, KCNA4 and LGI1 (By similarity).

**Subcellular Location:**

Cytoplasm.

**Tissue Specificity:**

In brain, expression is most prominent in caudate nucleus, hippocampus and thalamus. Significant expression also detected in amygdala and subthalamic nucleus. Also expressed in both healthy and cardiomyopathic heart. Up to four times more abundant in left ventricle than left atrium.

**Similarity:**

Belongs to the shaker potassium channel beta subunit family.

**SWISS:**

Q14722

**Gene ID:**

7881

**Important Note:**

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