bs-8691R **[Primary Antibody]**

KCNAB1/Kv beta 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7881 **SWISS:** Q14722

Target: KCNAB1/Kv beta 1

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

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: Voltage-gated K+ 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+ 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 å 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 ∫ , also known as KCNAB1 (potassium voltage-gated channel, shaker-related subfamily, beta member 1), is a 419 amino acid accessory K+ channel protein that exists as three alternatively spliced isoforms and regulates the activity of the pore-forming å subunit. It is expressed in brain, with highest levels detected in caudate nucleus, hippocampus and thalamus.

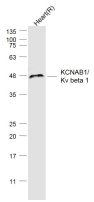
Applications: **WB** (1:500-2000)

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

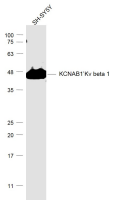
Predicted MW.: 47 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Heart (Rat) Lysate at 40 ug Primary: Anti-KCNAB1’ Kv beta 1 (bs-8691R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD



Sample: SH-SY5Y (Human) Cell Lysate at 30 ug Primary: Anti-KCNAB1’ Kv beta 1 (bs-8691R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD

SELECTED CITATIONS

- **[IF=3.4]** Lin-ming Zhang. et al. Identification of key potassium channel genes of temporal lobe epilepsy by bioinformatics analyses and experimental verification. FRONT NEUROL. 2023; 14: 1175007 IHC ;Mouse. 37483435