

Rabbit Anti-KCNAB1/Kv beta 1 antibody

SL8691R

Product Name:	KCNAB1/Kv beta 1
Chinese Name:	电压门 控 钾Channel protein1 抗体
	hKvb3; hKvBeta3; K(+) channel subunit beta-1; KCAB1_HUMAN; KCNA1B;
Alias:	KCNAB1; KV-BETA-1; Kvb1.3; Voltage-gated potassium channel beta-1 subunit;
	Voltage-gated potassium channel subunit beta-1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep,
	WB=1:500-2000ELISA=1:500-1000
Applications:	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	47kDa
Cellular localization:	cytoplasmic 💙
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogon	KLH conjugated synthetic peptide derived from human KCNAB1/Kv beta 1:131-
immunogen:	230/419
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
Storago	antibody is stable at room temperature for at least one month and for greater than a year
Storage:	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
	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
Product Detail:	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 ? 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. KVJ, 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 ? 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

Database links:

Entrez Gene: 395730 Chicken

Entrez Gene: 526133 Cow

Entrez Gene: 7881 Human

Entrez Gene: 16497 Mouse

Entrez Gene: 100125830 Pig

Entrez Gene: 29737 Rat
<u>GenBank: NP_751891</u> Human
<u>Omim: 601141</u> Human
SwissProt: Q9PWR1 Chicken
SwissProt: Q4PJK1 Cow
SwissProt: Q14722 Human
SwissProt: P63143 Mouse
SwissProt: P63144 Rat
Unigene: 654519 Human
Unigene: 703187 Human
Unigene: 316402 Mouse
Unigene: 32090 Rat
Important Note:
This product as supplied is intended for research use only, not for use in human,
therapeutic or diagnostic applications.
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	Primary: Anti-KCNAB1'Kv beta 1 (SL8691R) at 1/500 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 47 kD
	Observed band size: 47 kD

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Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 47 kD
Observed band size: 47 kD

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