



# KV $\beta$ 1 rabbit pAb

Cat No.:ES20681

For research use only

## Overview

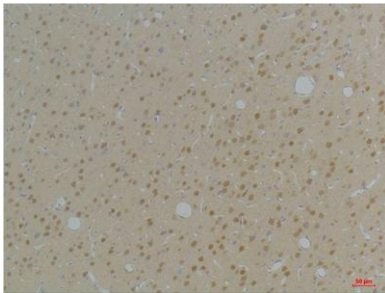
<b>Product Name</b>	KV $\beta$ 1 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IHC;IF
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse
<b>Recommended dilutions</b>	IHC 1:100-200
<b>Immunogen</b>	Synthetic Peptide of KV $\beta$ 1 AA range: 66-116
<b>Specificity</b>	KV $\beta$ 1 protein(A255) detects endogenous levels of KV $\beta$ 1
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Voltage-gated potassium channel subunit beta-1 (K(+)) channel subunit beta-1) (Kv-beta-1)
<b>Gene Name</b>	KCNAB1
<b>Cellular localization</b>	Cytoplasm . Membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Recruited to the cytoplasmic side of the cell membrane via its interaction with pore-forming potassium channel alpha s
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	50kD
<b>Human Gene ID</b>	7881
<b>Human Swiss-Prot Number</b>	Q14722
<b>Alternative Names</b>	Voltage-gated potassium channel subunit beta-1 (K(+)) channel subunit beta-1;Kv-beta-1)
<b>Background</b>	Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse





functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in *Drosophila*, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member includes distinct isoforms which are encoded by alternatively spliced transcript variants of this gene. Some of these isoforms are beta subunits, which form heteromultimeric complexes with alpha subunits and modulate the activity of the pore-forming alp

Immunohistochemical analysis of paraffin-embedded Rat BrainTissue using Kvb1 Rabbit pAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Mouse BrainTissue using Kvb1 Rabbit pAb diluted at 1:200.

