



Anti-KCNA1 (C-terminal) polyclonal antibody (CPBT-55113RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Product Overview | Rabbit Polyclonal antibody to Human KCNA1. |
| Antigen Description | This gene encodes a voltage-gated delayed potassium channel that is phylogenetically related to the Drosophila Shaker channel. The encoded protein has six putative transmembrane segments (S1-S6), and the loop between S5 and S6 forms the pore and contains the conserved selectivity filter motif (GYGD). The functional channel is a homotetramer. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting. Mutations in this gene have been associated with myokymia with periodic ataxia (AEMK). |
| Immunogen | Synthetic peptide derived from the C terminal domain of human Kv1.1 potassium channel. |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Purification | Whole antiserum |
| Conjugate | Unconjugated |
| Applications | IHC-P, IHC-Fr, WB, IHC-FoFr, ICC/IF |
| Sequence Similarities | Belongs to the potassium channel family. A (Shaker) (TC 1.A.1.2) subfamily. Kv1.1/KCNA1 sub-subfamily. |
| Cellular Localization | Membrane. |
| Format | Liquid |

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|---------------------|---|
| Size | 100 µl |
| Buffer | Preservative: NoneConstituents: Whole serum |
| Preservative | None |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |

GENE INFORMATION

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| Gene Name | KCNA1 potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia) [Homo sapiens] |
| Official Symbol | KCNA1 |
| Synonyms | KCNA1; potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia); AEMK; potassium voltage-gated channel subfamily A member 1; HUK1; Kv1.1; MBK1; RBK1; AEMK; EA1; HBK1; HUK1; Kca1 1; Kcna1; KCNA1_HUMAN; Kcpvd; KV1.1; MBK1; mceph; MGC124402; MGC126782; MGC138385; MK1; Potassium channel protein 1; Potassium voltage gated channel shaker related subfamily member 1; Potassium voltage gated channel subfamily A member 1; Potassium voltage-gated channel subfamily A member 1; RBK1; Shak; Shaker related subfamily member 1; Voltage gated potassium channel subunit Kv1.1; Voltage-gated K(+) channel HuK1; Voltage-gated potassium channel HBK1; Voltage-gated potassium channel subunit Kv1.1; voltage-gated K(+) channel HuK1; voltage-gated potassium channel HBK1; voltage-gated potassium channel subunit Kv1.1; EA1; MK1; HBK1; KV1.1; |
| Entrez Gene ID | 3736 |
| Protein Refseq | NP_000208 |
| UniProt ID | Q09470 |
| Chromosome Location | 12p13 |
| Pathway | Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem; |
| Function | delayed rectifier potassium channel activity; potassium channel activity; potassium ion transmembrane transporter activity; voltage-gated ion channel activity; |