



Anti-KCNA4 (aa 562-652) polyclonal antibody (DPAB-DC1760)

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

PRODUCT INFORMATION

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| Antigen Description | 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 contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the A-type potassium current class, the members of which may be important in the regulation of the fast repolarizing phase of action potentials in heart and thus may influence the duration of cardiac action potential.[provided by RefSeq, Mar 2011] |
| Immunogen | KCNA4 (NP_002224, 562 a.a. ~ 652 a.a) partial recombinant protein with GST tag. The sequence is NFNIFYHRETENEEQTQLTQNAVSCPYP LPSNLLKKFRSSTSSSLGDKSEYLEMEEGVKES LCAKEEK CQGKGDDSETDKNNCSNAKAVETD |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Conjugate | Unconjugated |
| Applications | WB (Recombinant protein), ELISA, |
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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| Gene Name | KCNA4 potassium voltage-gated channel, shaker-related subfamily, member 4 [Homo sapiens (human)] |
| Official Symbol | KCNA4 |
| Synonyms | KCNA4; potassium voltage-gated channel, shaker-related subfamily, member 4; HK1; HBK4; PCN2; HPCN2; HUKII; KCNA8; Kv1.4; KCNA4L; potassium voltage-gated channel subfamily A member 4; potassium channel 2; type A potassium channel; cardiac potassium channel; voltage-gated K(+) channel HuKII; voltage-gated potassium channel HK1; voltage-gated potassium channel HBK4; rapidly inactivating potassium channel; shaker-related potassium channel Kv1.4; fetal skeletal muscle potassium channel; voltage-gated potassium channel subunit Kv1.4; |
| Entrez Gene ID | 3739 |
| Protein Refseq | NP_002224 |
| UniProt ID | P22459 |
| Chromosome Location | 11p14 |
| Pathway | Neuronal System; Voltage gated Potassium channels; |
| Function | NOT delayed rectifier potassium channel activity; potassium ion binding; protein binding; voltage-gated potassium channel activity |