



Anti-KCNA4 monoclonal antibody (DCABH-12063)

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

PRODUCT INFORMATION

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. The coding region of this gene is intronless, and the gene is clustered with genes KCNA3 and KCNA10 on chromosome 1.

Immunogen	A synthetic peptide of human KCNA4 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Size	1 ea
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [KCNA4 potassium voltage-gated channel, shaker-related subfamily, member 4 \[Homo sapiens \]](#)

Official Symbol	KCNA4
Synonyms	KCNA4; potassium voltage-gated channel, shaker-related subfamily, member 4; KCNA4L, potassium voltage gated channel, shaker related subfamily, member 4 like; potassium voltage-gated channel subfamily A member 4; HK1; HPCN2; Kv1.4; 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; potassium voltage-gated channel, shaker-related subfamily, member 4-like; HBK4; PCN2; HUKII; KCNA8; KV1.4; KCNA4L;
Entrez Gene ID	3739
Protein Refseq	NP_002224
UniProt ID	P22459
Chromosome Location	11p14
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	potassium ion binding; voltage-gated ion channel activity; voltage-gated potassium channel activity;