Recombinant Human KCNAB2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KCNAB2-3710H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KCNAB2 MS Standard C13 and N15-labeled recombinant protein (NP_742128) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Voltage-gated potassium (Kv) 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 is one of the beta subunits, which are auxiliary proteins associating with functional Kv-alpha subunits. This member alters functional properties of the KCNA4 gene product. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	39.1 kDa
AA Sequence	MYPESTTGSPARLSLRQTGSPGMIYRNLGKSGLRVSCLGLGTWVTFGGQITDEMAE QLMTLAYDNGINLFDTAEVYAAGKAEVVLGNIIKKKGWRRSSLVITTKIFWGGKAETE

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	RGLSRKHIIEGLKASLERLQLEYVDVVFANRPDPNTPMEETVRAMTHVINQGMAMY WGTSRWSSMEIMEAYSVARQFNLTPPICEQAEYHMFQREKVEVQLPELFHKIGVGA MTWSPLACGIVSGKYDSGIPPYSRASLKGYQWLKDKILSEEGRRQQAKLKELQAIAE RLGCTLPQLAIAWCLRNEGVSSVLLGASNADQLMENIGAIQVLPKLSSSIIHEIDSILG NKPYSKKDYRSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	KCNAB2 potassium voltage-gated channel subfamily A regulatory beta subunit 2 [Homo sapiens (human)]
Official Symbol	KCNAB2
Synonyms	KCNAB2; potassium voltage-gated channel, shaker-related subfamily, beta member 2; voltage-gated potassium channel subunit beta-2; AKR6A5; HKvbeta2.1; HKvbeta2.2; KCNA2B; K+ channel beta-2 subunit; K(+) channel subunit beta-2; potassium channel shaker chain beta 2; HKvbeta2; KV-BETA-2; MGC117289;
Gene ID	8514

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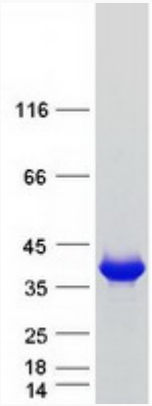
mRNA Refseq	NM_172130
Protein Refseq	NP_742128
MIM	601142
UniProt ID	Q13303
SDS-PAGE	

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