

Recombinant Human KCNAB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KCNAB1-1268H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KCNAB1 MS Standard C13 and N15-labeled recombinant protein (NP_751891) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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 alpha subunits.</p>
Molecular Mass	44.7 kDa
AA Sequence	MQVSIACTEHNLKSRNGEDRLLSKQSSTAPNVVNAARAKFRTVAIARSGLGTFTPQH HISLKESTAKQTGMKYRNLGKSGLRVSLGLGTWVTFGGQISDEVAERLMTIAYESG

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VNLFDTAEVYAAGKAEVILGSIKKKGWRRSSLVITTKLYWGGKAETERGLSRKHIIEG
 LKGS LQRLQLEYVDVVFANRPDSNTPMEEIVRAMTHVINQGMAMYWGTSRWSAME
 IMEAYSVARQFNMIPPVCEQAEYHLFQREKVEVQLPELYHKIGVGAMTWSPLACGII
 SGKYGNGVPRESSRSLKCYQWLKERIVSEEGRKQKNLKDLSPIAERLGCTLPQLA
 VAWCLRNEGVSSVLLGSSTPEQLIENLGAIQVLPKMTSHVVNEIDNILRNKPYSKKDY
 RSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 [KCNAB1 potassium voltage-gated channel subfamily A member regulatory beta subunit 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [KCNAB1](#)

Synonyms KCNAB1; potassium voltage-gated channel, shaker-related subfamily, beta member 1; voltage-gated potassium channel subunit beta-1; AKR6A3; hKvb3; hKvBeta3; KCNA1B; Kvb1.3; K(+) channel subunit beta-1; potassium channel beta 3 chain; potassium channel beta3 subunit; potassium channel shaker chain beta 1a; potassium voltage-gated channel beta subunit; voltage-gated potassium channel beta-1 subunit; KV-BETA-1;

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Gene ID 7881

mRNA Refseq NM_172159

Protein Refseq NP_751891

MIM 601141

UniProt ID Q14722

SDS-PAGE



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