

Product datasheet for PH307384

Kv beta 1 (KCNAB1) (NM_172159) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	KCNAB1 MS Standard C13 and N15-labeled recombinant protein (NP_751891)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207384
Predicted MW:	44.7 kDa
Protein Sequence:	>RC207384 protein sequence Red=Cloning site Green=Tags(s)

MQVSIACTEHNLKSRNGEDRLLSKQSSTAPNVVNAARAKFRTVAIIARSLGTFTPQHHSLSKSTAKQTG
MKYRNLGKSLRVSLGLGTWTFGGQISDEVAERLMTIAYESGVNLFDTAEVYAAGKAEVILGSIKKK
GWRSSLVITTKLYWGGKAETERGLSRKHIIEGLKGSQRLQLEYVDVVFANRPDSNTPMEEIVRAMTHV
INQGMAMYWGTSRWSAMEIMEAYSVARQFNIPVCEQAEYHLFQREKVEVQLPELYHKIGVGAMTWSPL
ACGIISGKYGNVPESRSLKCYQWLKERIVSEEGRKQNKLDLSPIAERLGCTLPQLAVAWCLRNEG
VSSVLLGSSTPEQLIENLGAIQVLPKMTSHVVNEIDNILRNPKPYSKKDYRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_751891</u>
RefSeq Size:	4518
RefSeq ORF:	1203
Synonyms:	AKR6A3; hKvb3; hKvBeta3; KCNA1B; KV-BETA-1; Kvb1.3
Locus ID:	7881



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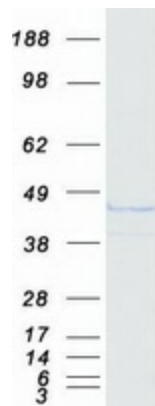
UniProt ID: [Q14722](#)

Cytogenetics: 3q25.31

Summary: 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. [provided by RefSeq, Apr 2015]

Protein Families: Druggable Genome, Ion Channels: Other

Product images:



Coomassie blue staining of purified KCNAB1 protein (Cat# [TP307384]). The protein was produced from HEK293T cells transfected with KCNAB1 cDNA clone (Cat# [RC207384]) using MegaTran 2.0 (Cat# [TT210002]).