

Product datasheet for PH311690

Kv beta 2 (KCNAB2) (NM_003636) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	KCNAB2 MS Standard C13 and N15-labeled recombinant protein (NP_003627)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211690
Predicted MW:	41 kDa
Protein Sequence:	>RC211690 protein sequence Red=Cloning site Green=Tags(s)
	<p>MYPESTTGSPARLSLRQTGSPGMIYSTRYGSPKRQLQFYRNLGKSGLRVSVCLGLGTWVTFGGQITDEMAE QLMTLAYDNGINLFDTAEVYAAGKAEVVLGNIKIKKGGWRRSSLVITTKIFWGGKAETERGLSRKHIEGL KASLERLQLEYVDVVFANRPDPNTPMEETVRAMTHVINQGMAMYWGTSRWSSMEIMEAYSVARQFNLTTP ICEQAEYHMFQREKVEVQLPELFHKIGVGAMTWSPLACGIVSGKYDSGIPPYSRASLKGQWLKDKILSE EGRRQQAKLKLQAIERLQCTLPQLAIWCLRNEGVSLLGASNADQLMENIGAIQVLPKLSSSIHE IDSILGNKPYSKKDYRS</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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:	NP_003627
RefSeq Size:	4224
RefSeq ORF:	1101
Synonyms:	AKR6A5; HKvbeta2; HKvbeta2.1; HKvbeta2.2; KCNA2B; KV-BETA-2
Locus ID:	8514



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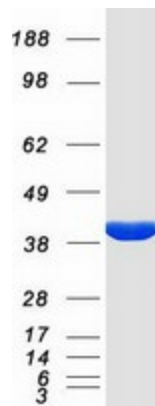
UniProt ID: [Q13303](#), [A1PR14](#)

Cytogenetics: 1p36.31

Summary: 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. [provided by RefSeq, Dec 2010]

Protein Families: Druggable Genome, Ion Channels: Other

Product images:



Coomassie blue staining of purified KCNA2 protein (Cat# [TP311690]). The protein was produced from HEK293T cells transfected with KCNA2 cDNA clone (Cat# [RC211690]) using MegaTran 2.0 (Cat# [TT210002]).