

Product datasheet for **TP307384M**

Kv beta 1 (KCNAB1) (NM_172159) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human potassium voltage-gated channel, shaker-related subfamily, beta member 1 (KCNAB1), transcript variant 3, 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC207384 protein sequence
Red=Cloning site **Green**=Tags(s)

MQVSIACTEHNLKSRNGEDRLLSKQSSTAPNVVNAARAKFRVAVIARSLGTFTPQHHISLKESTAKQTG
MKYRNLGKSGLRVSLGLGTWVTFGGQISDEVAERLMTIAYESGVNLFDTAEVYAAGKAEVILGSIKKK
GWRRSSLVITTKLYWGGKAETERGLSRKHIEGLKGS LQRLQLEYVDVVFANRPDSNTPMEEIVRAMTHV
INQGMAMYWGTSRWSAMEIMEAYSVARQFNMIPPVCEQAEYHLFQREKVEVQLPELYHKIGVGAMTWSPL
ACGIISGKYGNVPESSRASLKYQWLKERIVSEEGRKQQNKLKDLSPIAERLGCTLPQLAVAWCLRNEG
VSSVLLGSSTPEQLIENLGAIQVLPKMTSHVNEIDNILRNKPYSKKDYRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 44.5 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_751891](#)



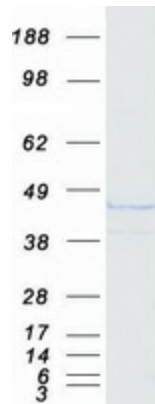
[View online »](#)

Locus ID: 7881
UniProt ID: [Q14722](#)
RefSeq Size: 4518
Cytogenetics: 3q25.31
RefSeq ORF: 1203
Synonyms: AKR6A3; hKvb3; hKvBeta3; KCNA1B; KV-BETA-1; Kvb1.3

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 KCNA1 protein (Cat# [TP307384]). The protein was produced from HEK293T cells transfected with KCNA1 cDNA clone (Cat# [RC207384]) using MegaTran 2.0 (Cat# [TT210002]).