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Product datasheet for CF503910

Kv beta 1 (KCNAB1) Mouse Monoclonal Antibody [Clone ID: OTI3G3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3G3
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human KCNAB1(NP_751891) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44.5 kDa
Gene Name:	potassium voltage-gated channel subfamily A regulatory beta subunit 1
Database Link:	NP_751891 Entrez Gene 16497 MouseEntrez Gene 29737 RatEntrez Gene 7881 Human Q14722

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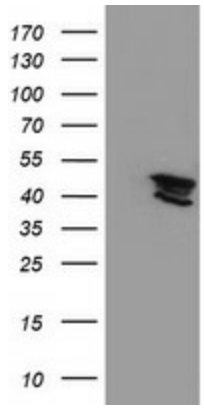
Background: Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth 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 three distinct isoforms which are encoded by three alternatively spliced transcript variants of this gene. These three isoforms are beta subunits, which form heteromultimeric complex with alpha subunits and modulate the activity of the pore-forming alpha subunits. [provided by RefSeq]

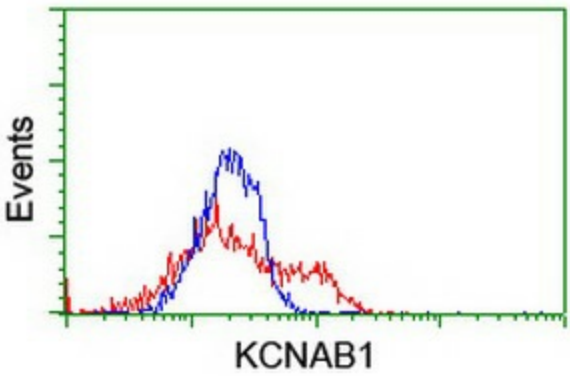
Synonyms: AKR6A3; hKvb3; hKvBeta3; KCNA1B; KV-BETA-1; Kvb1.3

Protein Families: Druggable Genome, Ion Channels: Other

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KCNAB1 ([RC207384], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KCNAB1. Positive lysates [LY403531] (100ug) and [LC403531] (20ug) can be purchased separately from OriGene.



HEK293T cells transfected with either [RC207384] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-KCNAB1 antibody ([TA503910]), and then analyzed by flow cytometry.