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Product datasheet for TA323044

KCNA5 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse spleen tissue
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 517-613 amino acids of human potassium voltage-gated channel, shaker-related subfamily, member 5
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44 kDa
Gene Name:	potassium voltage-gated channel subfamily A member 5
Database Link:	NP_002225 Entrez Gene 16493 MouseEntrez Gene 25470 RatEntrez Gene 3741 Human P22460

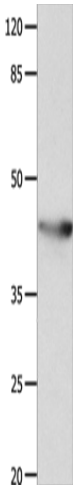
View online »

Background: Potassium channels represent the most complex class of voltage-gated ino 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 contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class; the function of which could restore the resting membrane potential of beta cells after depolarization and thereby contribute to the regulation of insulin secretion. This gene is intronless; and the gene is clustered with genes KCNA1 and KCNA6 on chromosome 12. Defects in this gene are a cause of familial atrial fibrillation type 7 (ATFB7).?

Synonyms: ATFB7; HCK1; HK2; HPCN1; KV1.5; PCN1

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

Product images:



Gel: 10%SDS-PAGE
Lysate: 40 µg
Lane: Mouse spleen tissue
Primary antibody: TA323044 (KCNA5 Antibody) at dilution 1/700
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 60 seconds