

Recombinant Human KCNA5

Catalog No: #GP10544



Package Size: #GP10544-1 100ug

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human KCNA5
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 517-613 amino acids of human potassium voltage-gated channel, shaker-related subfamily, member 5
Target Name	potassium voltage-gated channel, shaker-related subfamily, member 5
Other Names	HK2, HCK1, PCN1, ATFB7, HPCN1, KV1.5
Accession No.	Swissprot:P22460Gene Accession:BC099665
Uniprot	P22460
GenID	3741;
Storage	-20~-80°C, pH 7.6 PBS

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 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).?

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

Note: This product is for in vitro research use only