



Rat KCNA1 peptide (DAG-P1735)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a voltage-gated delayed potassium channel that is phylogenetically related to the Drosophila Shaker channel. The encoded protein has six putative transmembrane segments (S1-S6), and the loop between S5 and S6 forms the pore and contains the conserved selectivity filter motif (GYGD). The functional channel is a homotetramer. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting. Mutations in this gene have been associated with myokymia with periodic ataxia (AEMK). [provided by RefSeq, Jul 2008]
Conjugate	Unconjugated
Sequence Similarities	Belongs to the potassium channel family. A (Shaker) (TC 1.A.1.2) subfamily. Kv1.1/KCNA1 sub-subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	KCNA1 potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia) [Homo sapiens (human)]
Official Symbol	KCNA1
Synonyms	KCNA1; potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia); EA1; MK1; AEMK; HBK1; HUK1; MBK1; RBK1; KV1.1; potassium voltage-

gated channel subfamily A member 1; voltage-gated K(+) channel HuK1; voltage-gated potassium channel HBK1; voltage-gated potassium channel subunit Kv1.1;

Entrez Gene ID	3736
mRNA Refseq	NM_000217.2
Protein Refseq	NP_000208.2
UniProt ID	Q09470
Chromosome Location	12p13.32
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	delayed rectifier potassium channel activity; potassium channel activity; potassium ion transmembrane transporter activity; protein binding;