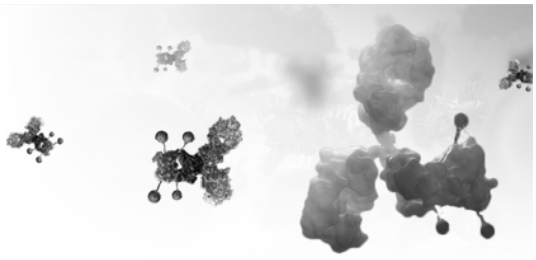

Mouse anti-Rat Kcna2 monoclonal antibody, clone T25-27 (CABT-B10491)

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

PRODUCT INFORMATION

Specificity	This antibody is specific to Kcna2.
Immunogen	Recombinant protein corresponding to amino acids 428-499 of rat Kcna2.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	rat
Clone	T25-27
Conjugate	Unconjugated
Applications	WB, IHC, IP
Format	Liquid
Buffer	In PBS, pH7.4 (50% glycerol, 0.09% sodium azide)
Storage	Store at -20°C.Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	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

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	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, members of which allow nerve cells to efficiently repolarize following an action potential. The coding region of this gene is intronless, and the gene is clustered with genes KCNA3 and KCNA10 on chromosome 1. [provided by RefSeq, Jul 2008]
Keywords	KCNA2; potassium channel, voltage gated shaker related subfamily A, member 2; HK4; MK2; HBK5; NGK1; RBK2; HUKIV; KV1.2; potassium voltage-gated channel subfamily A member 2; voltage-gated K(+) channel HuKIV; voltage-gated potassium channel HBK5; voltage-gated potassium channel protein Kv1.2; voltage-gated potassium channel subunit Kv1.2; potassium voltage-gated channel, shaker-related subfamily, member 2;

GENE INFORMATION

Entrez Gene ID	3737
UniProt ID	P16389
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	delayed rectifier potassium channel activity; ion channel activity; potassium channel activity; voltage-gated ion channel activity; voltage-gated potassium channel activity; voltage-gated potassium channel activity;

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