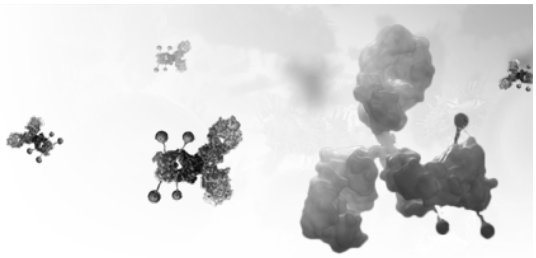

Mouse anti-Rat Kcnd2 monoclonal antibody, clone T68-2 (CABT-B10494)

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

PRODUCT INFORMATION

Specificity	This antibody is specific to Kcnd2.
Immunogen	A synthetic peptide corresponding to amino acids 209-225 of rat Kcnd2.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat
Clone	T68-2
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	Voltage-gated potassium (Kv) 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,

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	and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. This member mediates a rapidly inactivating, A-type outward potassium current which is not under the control of the N terminus as it is in Shaker channels. [provided by RefSeq, Jul 2008]
Keywords	KCND2; potassium channel, voltage gated Shal related subfamily D, member 2; RK5; KV4.2; potassium voltage-gated channel subfamily D member 2; voltage-sensitive potassium channel; voltage-gated potassium channel subunit Kv4.2; potassium voltage-gated channel, Shal-related subfamily, member 2;

GENE INFORMATION

Entrez Gene ID	16508
Pathway	Serotonergic synapse, organism-specific biosystem; miR-1 in cardiac development, organism-specific biosystem;
Function	A-type (transient outward) potassium channel activity; ion channel activity; metal ion binding; potassium channel activity; protein binding; protein heterodimerization activity; voltage-gated ion channel activity; voltage-gated potassium channel activity;

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