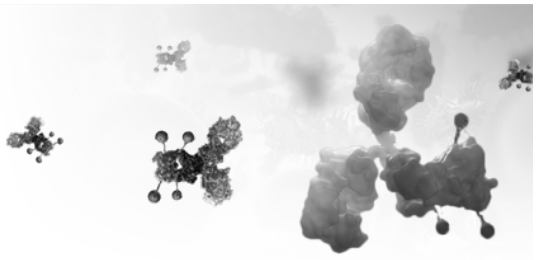

Mouse anti-Human KCNQ1 monoclonal antibody, clone T48B-20 (CABT-B10507)

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

PRODUCT INFORMATION

Specificity	Detects ~75KDa.
Immunogen	Recombinant fusion protein corresponding to amino acids 2-101 of human KCNQ1.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	T48B-20
Conjugate	Unconjugated
Applications	WB, IHC, IF, IP
Format	Liquid
Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage	Store at -20°C.Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	This gene encodes a voltage-gated potassium channel required for repolarization phase of the cardiac action potential. This protein can form heteromultimers with two other potassium channel proteins, KCNE1 and KCNE3. Mutations in this gene are associated with hereditary long QT syndrome 1 (also known as Romano-Ward syndrome), Jervell and Lange-Nielsen syndrome, and familial atrial fibrillation. This gene exhibits tissue-specific imprinting, with

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	preferential expression from the maternal allele in some tissues, and biallelic expression in others. This gene is located in a region of chromosome 11 amongst other imprinted genes that are associated with Beckwith-Wiedemann syndrome (BWS), and itself has been shown to be disrupted by chromosomal rearrangements in patients with BWS. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2011]
Keywords	KCNQ1; potassium channel, voltage gated KQT-like subfamily Q, member 1; LQT; RWS; WRS; LQT1; SQT2; ATFB1; ATFB3; JLNS1; KCNA8; KCNA9; Kv1.9; Kv7.1; KVLQT1; potassium voltage-gated channel subfamily KQT member 1; slow delayed rectifier channel subunit; voltage-gated potassium channel subunit Kv7.1; kidney and cardiac voltage dependend K+ channel; potassium voltage-gated channel, KQT-like subfamily, member 1; IKs producing slow voltage-gated potassium channel subunit alpha KvLQT1;

GENE INFORMATION

Entrez Gene ID	3784
UniProt ID	Q96AI9
Pathway	Cholinergic synapse;Gastric acid secretion;Neuronal System;Pancreatic secretion;Potassium Channels;
Function	calmodulin binding;contributes_to delayed rectifier potassium channel activity;outward rectifier potassium channel activity;voltage-gated potassium channel activity;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221