

Datasheet for ABIN3023121
anti-KCNQ1 antibody (AA 250-549)

4 Images

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Overview

Quantity:	100 µL
Target:	KCNQ1
Binding Specificity:	AA 250-549
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNQ1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 250-549 of human KCNQ1 (NP_861463.1).
Sequence:	TAWRCYAAEN PDSSTWKIYI RKAPRSHTLL SPSPKPKKSV VVKKKKFKLD KDNGVTPGEK MLTVPHITCD PPEERRLDHF SVDGYDSSVR KSPTLLEVSM PHFMRTNSFA EDLDLEGETL LTPITHISQL REHHRATIKV IRRMQYFVAK KKFQQARKPY DVRDVIEQYS QGHLNLMVRI KELQRRLDQS IGKPSLFISV SEKSKDRGSN TIGARLNRVE DKVTQLDQRL ALITDMLHQL LSLHGGSTPG SGGPPREGGA HITQPCGSGG SVDPELFLPS NTLPTYEQLT VPRRGPDEGS
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	KCNQ1
Alternative Name:	KCNQ1 (KCNQ1 Products)
Background:	<p>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 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.</p> <p>Alternatively spliced transcript variants have been found for this gene.,KCNQ1,ATFB1,ATFB3,JLNS1,KCNA8,KCNA9,KVLQT1,Kv1.9,Kv7.1,LQT,LQT1,RWS,SQT2,WRS,Signal Transduction,Endocrine & Metabolism,Neuroscience,Cardiovascular,Heart,Cardiac arrhythmias,KCNQ1</p>
Molecular Weight:	61 kDa/74 kDa
Gene ID:	3784
UniProt:	P51787
Pathways:	Negative Regulation of Hormone Secretion , Sensory Perception of Sound

Application Details

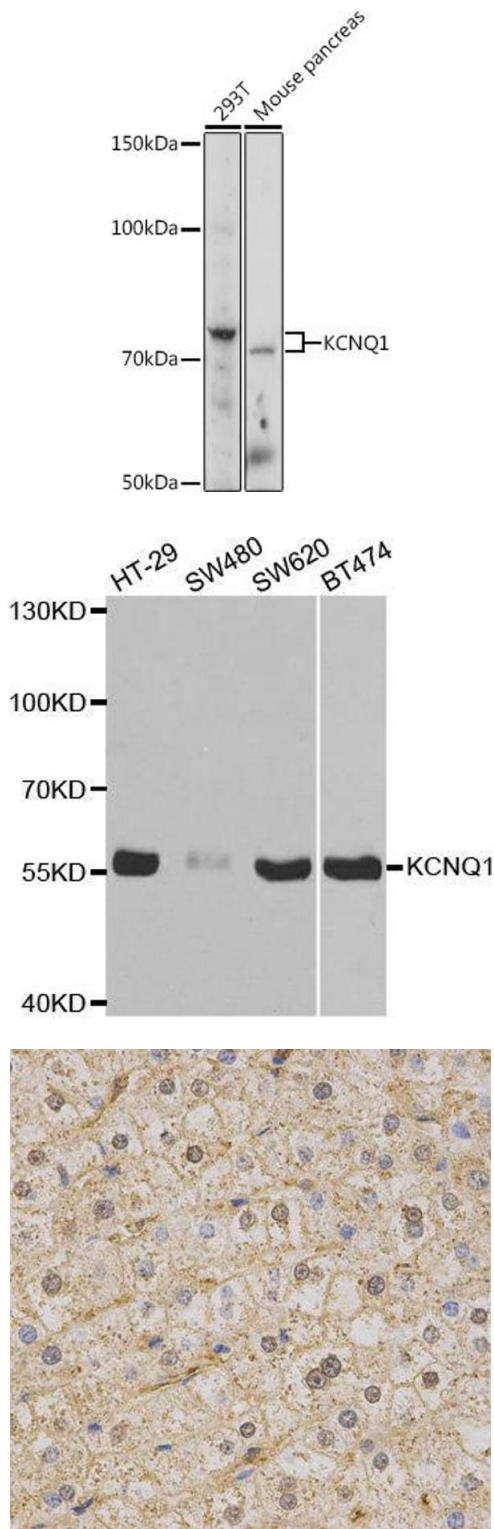
Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Validation report #104228 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using KCNQ1 Rabbit pAb (ABIN3023120, ABIN3023121, ABIN3023122 and ABIN6219399) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 30s.

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using KCNQ1 antibody.

Immunohistochemistry

Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3023121.