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Product datasheet for TA350113

KCNQ1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Mouse heart tissue IHC: 50-200 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human KCNQ1
Formulation:	pH7.4 PBS, 0.05% NaN3, 40% Glyceroln
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	75 kDa
Gene Name:	potassium voltage-gated channel subfamily Q member 1
Database Link:	NP_861463 Entrez Gene 16535 MouseEntrez Gene 84020 RatEntrez Gene 3784 Human P51787

View online »

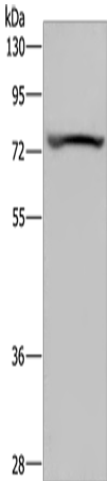
Background: This gene encodes a voltage-gated potassium channel required for repolarization phase of the cardiac action potential. This protein can form heteromultimers with two other potassium channel proteins, KCNE1 and KCNE3. Mutations in this gene are associated with hereditary long QT syndrome 1 (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. Alternatively spliced transcript variants have been found for this gene.

Synonyms: ATFB1; ATFB3; JLNS1; KCNA8; KCNA9; Kv1.9; Kv7.1; KVLQT1; LQT; LQT1; RWS; SQT2; WRS

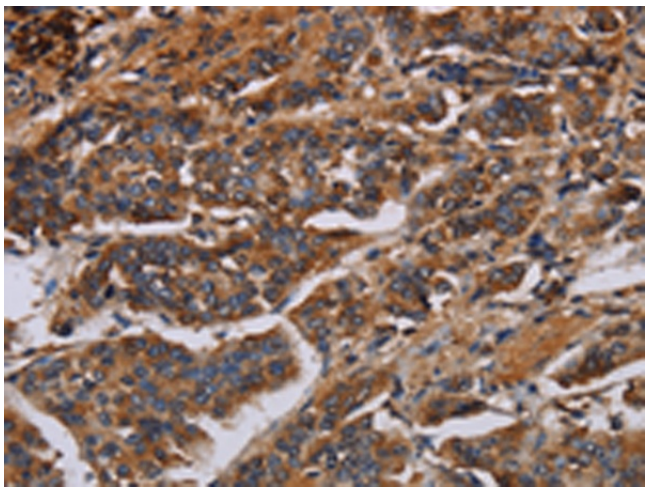
Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

Protein Pathways: Vibrio cholerae infection

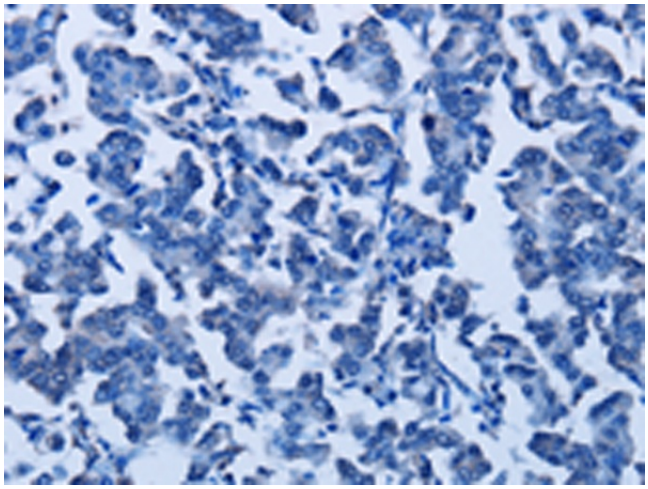
Product images:



Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane: Mouse heart tissue
Primary antibody: TA350113 (KCNQ1 Antibody) at dilution 1/200
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 5 minutes



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA350113 (KCNQ1 Antibody) at dilution 1/50 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA350113 (KCNQ1 Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: ×200)