

Datasheet for ABIN6656737
anti-KCNQ1 antibody (N-Term)

3 Images



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Overview

Quantity:	100 µg
Target:	KCNQ1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCNQ1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	KCNQ1 Antibody
Immunogen:	KCNQ1 Antibody was produced in mice by repeated immunizations raised against a fusion protein n-terminal region of human KCNQ1.
Clone:	N37A-10
Isotype:	IgG1
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with KCNQ1 from Human, Rat, and Mouse based on 100 % homology with the immunizing sequence.
Purification:	Anti-KCNQ1 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	KCNQ1
Alternative Name:	KCNQ1 (KCNQ1 Products)
Background:	<p>Synonyms: ATFB1, JLNS1, KCNA8, KCNA9, Kv1.9, Kv7.1, KVLQT1, LQT, LQT1, RWS, SQT2, voltage gated potassium channel subunit KV7.1, IKs producing slow voltage-gated potassium channel subunit alpha KvLQT1, KQT-like 1, Potassium voltage-gated channel subfamily KQT member 1</p> <p>Background: Specifically, Kv7.1 (KvLQT1) is a potassium channel protein coded for by the gene KCNQ1. Kv7.1 is present in the cell membranes of cardiac muscle tissue and in inner ear neurons among other tissues. In the cardiac cells, Kv7.1 mediates the IKs (or slow delayed rectifying K+) current that contributes to the repolarization of the cell, terminating the cardiac action potential and thereby the heart's contraction.</p> <p>Gene Name: KCNQ1</p>
Gene ID:	3784
NCBI Accession:	NP_000209
UniProt:	P51787
Pathways:	Negative Regulation of Hormone Secretion, Sensory Perception of Sound

Application Details

Application Notes:	Immunohistochemistry_Dilution: 0.1-1.0 µg/mL IF_Microscopy_Dilution: 1.0-10 µg/mL Western_Blots_Dilution: 1-10 µg/mL
Comment:	Anti-KCNQ1 Antibody is tested for use in WB, IP, IF, and IHC. Expect a band approximately ~75kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

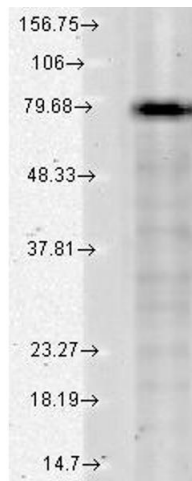
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol
Storage:	4 °C, -20 °C

Handling

Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

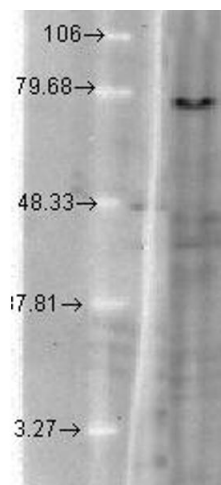
Expiry Date: 12 months

Images



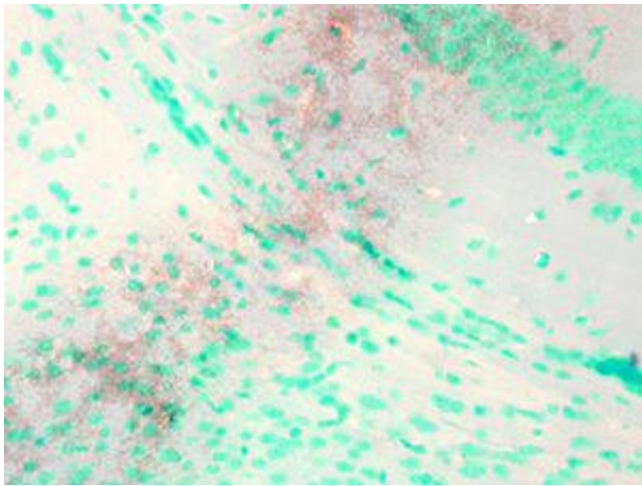
Western Blotting

Image 1. KCNQ1 Western Blot. Western Blot of mouse anti-KCNQ1 antibody. Lane 1: Human Cell Line Mix. Primary antibody: KCNQ1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 74.6 kDa/78 kDa for KCNQ1 total. Other band(s): none.



Western Blotting

Image 2. KCNQ1 Western Blot. Western Blot of mouse anti-KCNQ1 antibody. Lane 1: T-CHO cells. Primary antibody: KCNQ1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 74.6 kDa/78 kDa for KCNQ1 total. Other band(s): none.



Immunohistochemistry

Image 3. KCNQ1 Immunohistochemistry. Immunohistochemistry of mouse anti-KCNQ1 antibody. Tissue: mouse brain tissue. Primary Antibody: KCNQ1 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: cell membrane. Staining: KCNQ1 as green signal.