

Product datasheet for **TA328660**

KCNQ1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)TYEQLTVPRRGPEGS, corresponding to amino acid residues 661-676 of human Kv7.1. Intracellular, C-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.025% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	potassium voltage-gated channel subfamily Q member 1
Database Link:	NP_861463 Entrez Gene 16535 Mouse Entrez Gene 84020 Rat Entrez Gene 3784 Human P51787
Background:	KV7.1 (KCNQ1) is part of a voltage-gated K ⁺ family that includes 5 other members (KCNQ1-5). The channel has been intensively studied since it was found that together with MinK (Isk) it underlay the cardiac I _{Ks} current that controls the duration of the action potential of the human heart. Indeed mutations on either KV7.1 or MinK can be responsible for long QT syndrome, a cardiac disorder that causes arrhythmias and sudden death. Although KV7.1 expression and function has been mainly investigated in relation with cardiac function the channel is widely distributed in epithelial tissues. There it has been implicated in physiological functions such as: regulation of acid secretion in the stomach and Cl secretion into the colon.

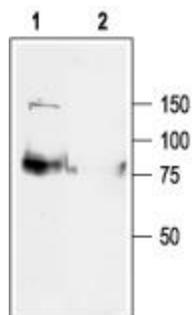


[View online »](#)

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:

Western blot analysis of rat heart membranes: 1. Anti-Kv7.1 (KCNQ1) antibody, (1:200). 2. Anti-Kv7.1 (KCNQ1) antibody, preincubated with the control peptide antigen