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Kcnq3 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI10796

Product Information

Application	WB
Primary Accession	Q8K3F6
Other Accession	NM_152923, NP_690887
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rabbit, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96852

Additional Information

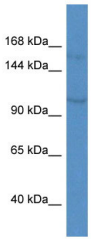
Gene ID	110862
Other Names	Potassium voltage-gated channel subfamily KQT member 3, KQT-like 3, Potassium channel subunit alpha KvLQT3, Voltage-gated potassium channel subunit Kv7.3, Kcnq3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Kcnq3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Kcnq3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

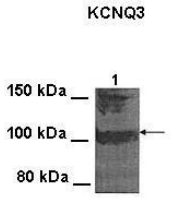
Name	Kcnq3 {ECO:0000312|MGI:MGI:1336181}
Function	Pore-forming subunit of the voltage-gated potassium (Kv) M- channel which is responsible for the M-current, a key controller of neuronal excitability. M-channel is composed of pore-forming subunits KCNQ2 and KCNQ3 assembled as heterotetramers (By similarity). The native M-current has a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons as well as the responsiveness to synaptic inputs. M-channel is selectively permeable in vitro to other cations besides potassium, in decreasing order of affinity K(+) > Rb(+) > Cs(+) > Na(+). M-channel association with SLC5A3/SMIT1 alters channel ion selectivity, increasing Na(+) and Cs(+) permeation relative

	to K(+). Suppressed by activation of M1 muscarinic acetylcholine receptors. KCNQ3 also associates with KCNQ5 to form a functional channel in vitro and may also contribute to the M-current in brain (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:O43525}; Multi-pass membrane protein
Tissue Location	Expressed in dorsal root ganglion (DRG) neurons.

Images



WB Suggested Anti-Kcnq3 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Heart



Lanes: 100 ug CHO cell lysate

Primary Antibody Dilution: 1:1000
Secondary Antibody: Goat anti-rabbit HRP
Secondary Antibody Dilution: 1:25000
Gene Name: Kcnq3
Submitted by: Anonymous

See Immunoblot 2 Data and Customer Feedback for more information