

Product datasheet for **TA328950**

Kcnq3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide AEGEKKEDNRYSDLKTIIC, corresponding to amino acid residues 668-686 of rat Kv7.3 . Intracellular, C-terminal.
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, 0.05% 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 3
Database Link:	NP_113785 Entrez Gene 110862 Mouse Entrez Gene 29682 Rat



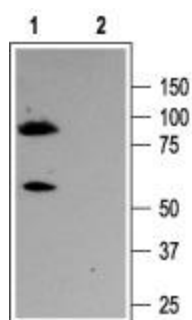
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Background:

The KCNQ family of voltage-gated K⁺ channels includes 5 known members: KCNQ1 to KCNQ5. Structurally, the KCNQ family belongs to the six transmembrane domain category of K⁺ channels. KCNQ family members can form either homomultimeric or heteromultimeric channels with different functional consequences. For example KCNQ2 and KCNQ3 heteromultimers give rise to a much larger channel current than when either protein is expressed alone, probably due to enhanced plasma membrane expression of the combined channel. Indeed, KCNQ2/KCNQ3 heteromultimers are believed to be the molecular correlates of the so-called M current. This current is a K⁺ neuronal current that is strongly inhibited by the activation of the M1 subtype of the muscarinic acetylcholine receptor. Mutations in either KCNQ2 or KCNQ3 are associated with a form of epilepsy known as benign familial neonatal convulsions (BNFC).

Synonyms:

BFNC2; EBN2; KV7.3

Product images:

Western blot analysis of rat brain membranes: 1. Anti-Kv7.3 (KCNQ3) antibody, (1:200). 2. Anti-Kv7.3 (KCNQ3) antibody, preincubated with the control peptide antigen.