

Product datasheet for **TA328969**

Kcnh7 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CPEFLDLEKSKLKSKE, corresponding to amino acid residues 1108-1123 of rat Kv11.3. Intracellular, C-terminal part.
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 H member 7
Database Link:	NP_571987 Entrez Gene 90134 Human Entrez Gene 170738 Mouse Entrez Gene 170739 Rat O54852



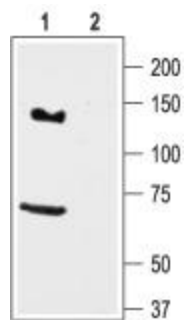
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Background:

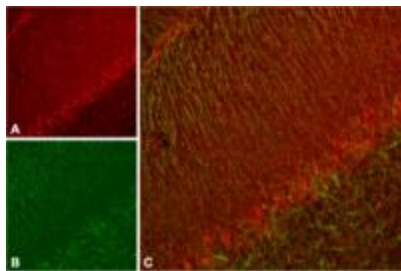
Kv11.3 (erg3) is a member of the ether-a-go-go (EAG) subfamily of voltage-dependent K⁺ channels. The erg subfamily includes the closely related proteins Kv11.1 (erg1) and Kv11.2 (erg2) that possess the signature structure of the voltage-dependent K⁺ channels: six membrane-spanning domains with intracellular N and C termini. As with all voltage-dependent K⁺ channels the functional channel is a tetramer composed of four subunits. It has been suggested that the Kv11 subfamily members can form functional heteromultimers within the subfamily. The current of the Kv11.1 and Kv11.2 channels is that of a strong inward rectifier with slow activating kinetics. The Kv11.3 channel has different biophysical properties: it is a weak inward rectifier that is activated at negative potentials and has rapid activating kinetics. Kv11.3 expression is believed to be concentrated mainly in the brain with the stronger expression detected in the cerebral cortex and hippocampus.

Synonyms:

ERG3; HERG-3; HERG3; Kv11.3; MGC45986

Product images:

Western blot analysis of rat brain lysate: 1. Anti-Kv11.3 (erg3) antibody, (1:300). 2. Anti-Kv11.3 (erg3) antibody, preincubated with the control peptide antigen.



Expression of KV11.3 in rat cerebellum. Immunohistochemical staining of rat cerebellum using Anti-Kv11.3 (erg3) antibody. A. Kv11.3 channel appears in glial processes (red). B. Staining of astrocytic fibers with mouse anti glial fibrillary acidic protein (GFAP, green). C. Confocal merge of Kv11.3 channel and GFAP demonstrates colocalization in the molecular layer but separate localization of these proteins at the Purkinje cell layer.