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Product datasheet for TA328970

Kcnh8 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide EDKKEDRAKGRSRAG(C), corresponding to amino acid residues 143-157 of rat Kv12.1. Intracellular, N-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% NaN3.
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 8
Database Link:	NP_659563 Entrez Gene 246325 Rat Q9QWS8

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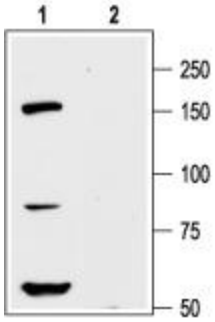
Background: Kv12.1 is a voltage-gated K+ channel that belongs to the ether-a-go-go (EAG) family. The EAG family of voltage-gated K+ channels can be subdivided into three distinct groups based on sequence homology. They are the eag (Kv10) with two members, the eag-related channels (erg or Kv11) and the eag-like K+ channels (elk or Kv12) with three members each.As all members of the family, Kv12.1 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 Kv12 subfamily members can form functional heteromultimers within the subfamily.Kv12.1 channel distribution appears to be mainly confined to the central nervous system with some expression in peripheral organs such as testis, colon and lung.The physiological function of the Kv12.1 channel hasnâ??t been established, although a role in the modulation of overall excitability of neurons has been suggested.

Synonyms: ELK; ELK1; elk3; hElk1; Kv12.1

Product images:



Western blot analysis of rat cortex lysate: 1. Anti-Kv12.1 (Elk1) antibody, (1:200). 2. Anti-Kv12.1 (Elk1) antibody, preincubated with the control peptide antigen.