

Product datasheet for TA328982

Kcns1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications:

Recommended Dilution: WB: 1:200-1:2000 Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Peptide (C)EDVRDDPVLRRLE, corresponding to amino acid residues 233-245 of rat KV9.1 . 1st Immunogen:

extracellular loop.

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.

Add 50 ul double distilled water (DDW) to the lyophilized powder. **Reconstitution Method:**

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, modifier subfamily S, member 1

Database Link: NP 446406

Entrez Gene 3787 HumanEntrez Gene 16538 MouseEntrez Gene 117023 Rat

O88758



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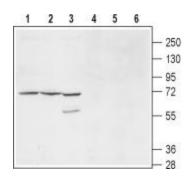


Background:

K+ channels are transmembrane proteins expressed in many excitable and non-excitable cells. Functional entities are formed by the tetrameric assembly of a subunits which could be done in a homomeric or heteromeric fashion. In addition, the association of b subunits is also required for the proper function of K+ channels. Various splice variants are also expressed, thereby complicating the picture. K+ channels belonging to the K V9 subfamily resemble to the delayed-rectifier class of K+ channel a subunits. These channels include six transmembrane domains, an ion selective pore, a leucine zipper and positively charged amino acids in S4 the voltage sensor domain. Interestingly, both KV9.1 and KV9.3 channels are electrically silent delayed rectifying K+ channels. However, they are responsible for modifying the activity of other K+ channels such as that of KV2.1, yielding currents different from those of KV2.1 on its own. KV9.1 is mainly expressed in the brain, human lens epithelial cells, kidney, prostate and testis. That of KV9.3 is more generalized and ubiquitous.Interestingly, a polymorphism in the gene encoding for KV9.1 was identified and associated with high risks of suffering from neuropathic pain3. Evidently, additional work needs to be done to evaluate and decipher the role of KV9.1 (if at all) in chronic pain states.

Synonyms: Kv9.1

Product images:



Western blot analysis of mouse (lanes 1 and 4), and rat (lanes 2 and 5) brain membranes and human HL-60 promyelocytic leukemia cell lysates (lanes 3 and 6): 1-3. Anti-Kv9.1 (extracellular) antibody, (1:200). 4-6. Anti-Kv9.1 (extracellular) antibody, preincubated with the control peptide antigen.