

Product datasheet for **TA334712**

Kv2.1 (KCNB1) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | WB |
| Reactivity: | Human |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | The immunogen for anti-KCNB1 antibody: synthetic peptide directed towards the middle region of human KCNB1. Synthetic peptide located within the following region: YIDADTDDEGQLLYSVDSSPPKSLPGSTSPKFSTGTRSEKNHFESSPLPT |
| Formulation: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i> |
| Purification: | Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 96 kDa |
| Gene Name: | potassium voltage-gated channel subfamily B member 1 |
| Database Link: | NP_004966 Entrez Gene 3745 Human Q14721 |



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Background:

Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in *Drosophila*, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shab-related subfamily. This member is a delayed rectifier potassium channel and its activity is modulated by some other family members. Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in *Drosophila*, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shab-related subfamily. This member is a delayed rectifier potassium channel and its activity is modulated by some other family members. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Synonyms:

DRK1; EIEE26; h-DRK1; KV2.1

Note:

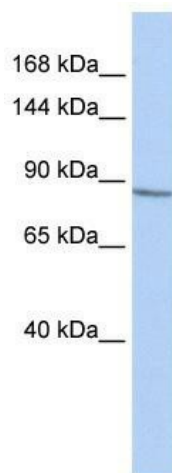
Immunogen Sequence Homology: Human: 100%; Dog: 93%; Pig: 93%; Bovine: 92%; Rat: 86%; Horse: 86%; Guinea pig: 86%; Mouse: 79%

Protein Families:

Druggable Genome, Ion Channels: Potassium, Transmembrane

Protein Pathways:

Taste transduction

Product images:

WB Suggested Anti-KCNB1 Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control:
HepG2 cell lysate