

## Anti-KCNE2 Antibody

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### Description

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. This gene encodes a member of the potassium channel, voltage-gated, isk-related subfamily. This member is a small integral membrane subunit that assembles with the KCNH2 gene product, a pore-forming protein, to alter its function. This gene is expressed in heart and muscle and the gene mutations are associated with cardiac arrhythmia.

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| <b>Model</b>              | STJ116033                                                                                                                                                                                                                                                                    |
| <b>Host</b>               | Rabbit                                                                                                                                                                                                                                                                       |
| <b>Reactivity</b>         | Human, Mouse                                                                                                                                                                                                                                                                 |
| <b>Applications</b>       | WB                                                                                                                                                                                                                                                                           |
| <b>Immunogen</b>          | Recombinant fusion protein containing a sequence corresponding to amino acids 1-123 of human KCNE2 (NP_751951.1).                                                                                                                                                            |
| <b>Gene ID</b>            | <a href="#">9992</a>                                                                                                                                                                                                                                                         |
| <b>Gene Symbol</b>        | <a href="#">KCNE2</a>                                                                                                                                                                                                                                                        |
| <b>Dilution range</b>     | WB 1:500 - 1:2000                                                                                                                                                                                                                                                            |
| <b>Tissue Specificity</b> | Highly expressed in brain, heart, skeletal muscle, pancreas, placenta, kidney, colon and thymus, A small but significant expression is found in liver, ovary, testis, prostate, small intestine and leukocytes, Very low expression, nearly undetectable, in lung and spleen |

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| <b>Purification</b>          | Affinity purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Note</b>                  | For Research Use Only (RUO).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Name</b>          | Potassium voltage-gated channel subfamily E member 2 MinK-related peptide 1 Minimum potassium ion channel-related peptide 1 Potassium channel subunit beta MiRP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Weight</b>      | 14.472 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clonality</b>             | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Conjugation</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>               | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Formulation</b>           | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage Instruction</b>   | Store at -20C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Database Links</b>        | <a href="#">HGNC:6242OMIM:603796Reactome:R-HSA-5576890</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Alternative Names</b>     | Potassium voltage-gated channel subfamily E member 2 MinK-related peptide 1 Minimum potassium ion channel-related peptide 1 Potassium channel subunit beta MiRP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Function</b>              | Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits, Modulates the gating kinetics and enhances stability of the channel complex, Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1, Associated with KCNH2/HERG is proposed to form the rapidly activating component of the delayed rectifying potassium current in heart (IKr), May associate with KCNQ2 and/or KCNQ3 and modulate the native M-type current, May associate with HCN1 and HCN2 and increase potassium current, Interacts with KCNQ1 |
| <b>Cellular Localization</b> | Cell membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |