# KCNE4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | KCNE4, Polyclonal Antibody |
| **Full Product Name** | KCNE4 Polyclonal Antibody |
| **Product Gene Name** | anti-KCNE4 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3. |
| **Purity/Purification** | Affinity Purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 23kDa |
| **OMIM** | AK294423 mRNA |
| **3D Structure** | ModBase 3D Structure for Q8WWG9 |
| **Immunogen** | Recombinant protein of human KCNE4 (NP_542402.3). |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-KCNE4 antibody** | Western Blot (WB) |
| **Application Notes for anti-KCNE4 antibody** | WB: 1:500-1:1000 |
| **Related Product Information for anti-KCNE4 antibody** | 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 type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the embryo and in adult uterus. |
| **Other Notes** | Small volumes of anti-KCNE4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for KCNE4 purchase** | MBS8567158 is an antibody targeting KCNE4. Also known as KCNE4 Polyclonal Antibody. Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNE4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 415703214 |
| **NCBI GeneID** | 23704 |
| **NCBI Accession #** | NP_542402.3 |

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| **UniProt Primary Accession #** | Q8WWG9 |
| **UniProt Related Accession #** | Q8WWG9 |
| **GenBank Nucleotide #** | NP_542402.3 |
| **NCBI Official Full Name** | potassium voltage-gated channel subfamily E member 4 |
| **NCBI Official Synonym Full Names** | potassium voltage-gated channel subfamily E regulatory subunit 4 |
| **NCBI Official Symbol** | KCNE4 |
| **NCBI Official Synonym Symbols** | MIRP3 |
| **UniProt Protein Name** | Potassium voltage-gated channel subfamily E member 4 |
| **UniProt Synonym Protein Names** | MinK-related peptide 3; Minimum potassium ion channel-related peptide 3; Potassium channel subunit beta MiRP3 |
| **Protein Family** | Potassium voltage-gated channel subfamily |
| **UniProt Gene Name** | KCNE4 |
| **NCBI Protein Information** | potassium voltage-gated channel subfamily E member 4 |
| **UniProt Comments for KCNE4** | KCNE4: 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. May associate with KCNQ1/KVLTQ1 and inhibit potassium current. Belongs to the potassium channel KCNE family.<br><br>Protein type: Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 2q36.1<br><br>Cellular Component: apical plasma membrane; integral component of membrane<br><br>Molecular Function: protein binding; voltage-gated potassium channel activity |
| **Research Articles on KCNE4** | **1.** Regulation of human cardiac potassium channels by full-length KCNE3 and KCNE4 has been reported. |
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