KCNE4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNE4, Polyclonal Antibody
Full Product Name	KCNE4, ID (KCNE4, Potassium voltage-gated channel subfamily E member 4, MinK-related peptide 3, Minimum potassium ion channel-related peptide 3, Potassium channel subunit beta MiRP3) (MaxLight 750)
Product Gene Name	anti-KCNE4 antibody
Product Synonym Names	KCNE4; Potassium voltage-gated channel subfamily E member 4; MinK-related peptide 3; Minimum potassium ion channel-related peptide 3; Potassium channel subunit beta MiRP3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	AK294423 mRNA
3D Structure	ModBase 3D Structure for Q8WWG9
Immunogen	KCNE4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 57-86 amino acids from the Central region of human KCNE4.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-KCNE4 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-KCNE4 antibody	Western Blot (WB), FLISA
Application Notes for anti-KCNE4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
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.
Product References and Citations for anti-KCNE4 antibody	Levy, D.I., et al. J. Physiol. (Lond.) 588 (PT 14), 2657-2668 (2010): Sole, L., et al. J. Cell. Sci. 122 (PT 20), 3738-3748 (2009): Trevino, L.R., et al. Nat. Genet. 41(9):1001-1005(2009). Manderfield, L.J., et al. J. Physiol. (Lond.) 587 (PT 2), 303-314 (2009): Levy, D.I., et al. Am. J. Physiol. Renal Physiol. 295 (2), F380-F387 (2008).

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	MBS6312399 is an antibody targeting KCNE4. Also known as KCNE4, ID (KCNE4, Potassium voltage-gated channel subfamily E member 4, MinK-related peptide 3, Minimum potassium ion channel-related peptide 3, Potassium channel subunit beta MiRP3) (MaxLight 750). 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.

NCBI GI #	154448884
NCBI GeneID	23704
NCBI Accession #	NP_542402.2
UniProt Primary Accession #	Q8WWG9
UniProt Related Accession #	Q8WWG9
GenBank Nucleotide #	NP_542402.2
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. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 2q36.1 Cellular Component: apical plasma membrane; integral component of membrane 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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