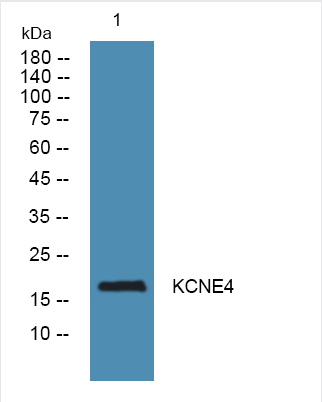
KCNE4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNE4, Polyclonal Antibody
Full Product Name	KCNE4 Rabbit Polyclonal Antibody
Product Gene Name	anti-KCNE4 antibody
Product Synonym Names	BH6842; 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
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	KCNE4 Polyclonal Antibody detects endogenous levels of protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	23,806 Da
OMIM	AK294423 mRNA
3D Structure	ModBase 3D Structure for Q8WWG9
Immunogen	Synthesized peptide derived from human protein. at AA range: 90-170
Modification	Unmodified/Total
Applications Tested/Suitable for anti-KCNE4 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-KCNE4 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-KCNE4 antibody	potassium voltage-gated channel subfamily E regulatory subunit 4 (KCNE4) Homo sapiens 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. [provided by RefSeq, Jul 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	MBS9515115 is an antibody targeting KCNE4. Also known as KCNE4 Rabbit Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-KCNE4 antibody
Western blot analysis of lysates from A431 cells, primary antibody was diluted at 1:1000, 4 degree over night

ADDITIONAL DETAILS

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

NCBI GI #	415703214
NCBI GeneID	23704
NCBI Accession #	NP_542402.3
UniProt Primary Accession #	Q8WWG9
UniProt Secondary Accession #	Q53SM4; Q96CC4; B7Z275
UniProt Related Accession #	Q8WWG9
GenBank Nucleotide #	NM_080671.3
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
NCBI Summary for KCNE4	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. [provided by RefSeq, Jul 2008]

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.** Reported here are previously undiscovered protein-coding regions in exon 1 of hKCNE3 and hKCNE4 that extend their encoded extracellular domains by 44 and 51 residues, which yields full-length proteins of 147 and 221 residues, respectively.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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