

KCNE4 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18476c**Specification**

KCNE4 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O8WWG9
Other Accession	O9WTW3 , NP_542402.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23806
Antigen Region	58-86

KCNE4 Antibody (Center) - Additional Information**Gene ID** 23704**Other Names**

Potassium voltage-gated channel subfamily E member 4, MinK-related peptide 3, Minimum potassium ion channel-related peptide 3, Potassium channel subunit beta MiRP3, KCNE4

Target/Specificity

This KCNE4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-86 amino acids from the Central region of human KCNE4.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

KCNE4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNE4 Antibody (Center) - Protein Information**Name** KCNE4 ([HGNC:6244](#))

Function Ancillary protein that functions as a regulatory subunit of the voltage-gated potassium (Kv) channel complex composed of pore- forming and potassium-conducting alpha subunits and of regulatory beta subunits. KCNE4 beta subunit modulates the gating kinetics and enhances stability of the channel complex (PubMed:[12096056](#), PubMed:[19687231](#), PubMed:[20533308](#), PubMed:[27162025](#)). Associates with KCNQ1/KVLQT1 alpha subunit to inhibit potassium currents (PubMed:[12096056](#), PubMed:[19687231](#), PubMed:[20533308](#), PubMed:[27162025](#)).

Cellular Location

Membrane; Single- pass membrane protein

Tissue Location

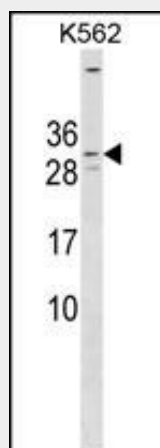
Predominantly expressed in embryo and adult uterus. Low expression found in kidney, small intestine, lung and heart

KCNE4 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCNE4 Antibody (Center) - Images



KCNE4 Antibody (Center) (Cat. #AP18476c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the KCNE4 antibody detected the KCNE4 protein (arrow).

KCNE4 Antibody (Center) - 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. 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.

KCNE4 Antibody (Center) - References

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) :