10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KCNE1L Rabbit pAb

KCNE1L Rabbit pAb
Catalog # AP59426

Product Information

Primary Accession	Q9UJ90
Reactivity	Human
Predicted	Mouse, Rat, Pig, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14993
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KCNE1L
Epitope Specificity	11-110/142
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Plasma membrane; Single-pass type I membrane protein.
SIMILARITY	Belongs to the potassium channel KCNE family.
DISEASE	Defects in KCNE1L are involved in Alport syndrome with mental retardation midface hypoplasia and elliptocytosis (ATS-MR) [MIM:300194]. A X-linked contiguous gene deletion syndrome characterized by glomerulonephritis, deafness, mental retardation, midface hypoplasia and elliptocytosis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	KCNE1L belongs to the potassium channel KCNE family which 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.

Additional Information

Gene ID	23630
Other Names	Potassium voltage-gated channel subfamily E regulatory beta subunit 5, AMME syndrome candidate gene 2 protein, Potassium channel subunit beta MiRP4, Potassium voltage-gated channel subfamily E member 1-like protein, KCNE5, AMMECR2, KCNE1L {ECO:0000303|PubMed:10493825}
Target/Specificity	Highly expressed in heart, skeletal muscle, brain, spinal cord and placenta.
Dilution	Flow-Cyt=1ug/test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

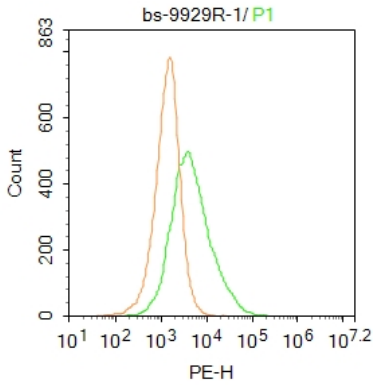
Protein Information

Name	KCNE5
Synonyms	AMMECR2, KCNE1L {ECO:0000303|PubMed:1049
Function	Potassium channel ancillary subunit that is essential for generation of some native K(+) currents by virtue of formation of heteromeric ion channel complex with voltage-gated potassium (Kv) channel pore-forming alpha subunits. Functions as an inhibitory beta- subunit of the repolarizing cardiac potassium ion channel KCNQ1.
Cellular Location	Membrane; Single- pass type I membrane protein
Tissue Location	Highly expressed in heart, skeletal muscle, brain, spinal cord and placenta.

Background

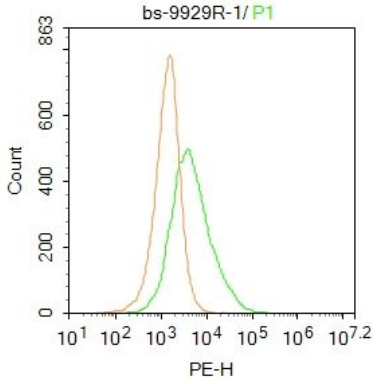
KCNE1L belongs to the potassium channel KCNE family which represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume.

Images



Blank control: Hela.
Primary Antibody (green line): Rabbit Anti-KCNE1L antibody (AP59426)
Dilution: 1 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1 µg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 20% PBST for 20 min atroom temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Blank control: Hela.
Primary Antibody (green line): Rabbit Anti-KCNE1L antibody (AP59426)
Dilution: 1 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1 µg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 20% PBST for



20 min atroom temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.