Anti-KCNE1(Potassium voltage-gated channel subfamily E member 1) Polyclonal Antibody

Cat. #: 60B882

Description:
KCNE1 (Potassium voltage-gated channel subfamily E member 1) is an ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. KCNE1 modulates the gating kinetics and enhances stability of the channel complex. The KCNE1 assembled with KCNQ1/KVLQT1 is proposed to form the slowly activating delayed rectifier cardiac potassium (IKs) channel. The outward current reaches its steady state only after 50 seconds. The KCNE1 assembled with KCNH2/HERG may modulate the rapidly activating component of the delayed rectifying potassium current in heart (IKr). KCNE1 is associates with KCNQ1/KVLQT1 and KCNH2/HERG. Defects in KCNE1 are a cause of the autosomal recessive Jervell and Lange-Nielsen syndrome (JLNS). JLNS comprises profound congenital sensorineural deafness associated with syncopal episodes. These are caused by ventricular tachyarrhythmia secondary to abnormal repolarization, manifested by a prolonged QT interval on the electrocardiogram.

Immunogen/Specificity:
Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human KCNE1 (Potassium voltage-gated channel subfamily E member 1)

References

Murai,T., et al, Biochem. Biophys. Res. Commun. 161 (1), 176-181 (1989)
Chouabe,C., et al, EMBO J. 16 (17), 5472-5479 (1997)
McDonald,T.V., et al, Nature 388 (6639), 289-292 (1997)
Abbott,G.W. and Goldstein,S.A., FASEB J. 16 (3), 390-400 (2002)
Tesson,F., et al, J. Mol. Cell. Cardiol. 28 (9), 2051-2055 (1996)
Tyson,J., et al, Hum. Mol. Genet. 6 (12), 2179-2185 (1997)
Schulze-Bahr,E., et al, Nat. Genet. 17 (3), 267-268 (1997)
Splawski,I., et al, Nat. Genet. 17 (3), 338-340 (1997)
Duggal,P., et al, Circulation 97 (2), 142-146 (1998)
Splawski,I., et al, Circulation 102 (10), 1178-1185 (2000)
Schulze-Bahr,E., et al, J. Mol. Med. 79 (9), 504-509 (2001)

Clone Number:
Isotype:
Species: Human
Storage and Stability: at -20oC

Storage buffer:
This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:
Purified by antigen-specific affinity chromatography.

Applications :
ELISA
Western Blotting (1µg/ml for 2hrs)

Tel. (650)-964-2589, Fax. (650)964-2519 info@antageneinc.com, 1391 Old Middlefield Way, Suite K Mountain View, CA 94043