



## KCNE1 Polyclonal Antibody

E91176

- Catalog Number:** E91176
- Amount:** 100ul
- Background:** Voltage-gated potassium channels play a variety of important roles in human health and disease (1,2). KCNE1, also known as MinK, belongs to a family of small transmembrane proteins (KCNE1, 2, 3, 4, and KCNE1L) that modulate the activity of several voltage-gated K<sup>+</sup> channels (3-5). KCNE1 functions as the modulatory  $\beta$ -subunit of the pore-forming  $\alpha$ -subunit KCNQ1, and alters several biophysical properties of KCNQ1 channels (6,7). Research studies have shown that several inherited mutations in KCNE1 result in long QT syndrome (8-10) and deafness (11).
- Species:** Rabbit
- Isotype:** IgG
- Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
- Synonyms:** KCNE1;FLJ18426;FLJ38123;FLJ94103;ISK;JLNS;JLNS2;LQT2/5;LQT5;MGC33114;MinK ;
- Immunogen:** Recombinant protein of human KCNE1
- Purification:** Affinity purification
- Reactivity:** H M R
- Applications:** WB IHC
- Molecular Weight:** 15kDa
- Swiss-Prot No. :** P15382
- Gene ID:** 3753
- References:** 1. Jespersen, T. et al. (2005) *Physiology* (Bethesda) 20, 408-16. 2. Robbins, J. (2001) *Pharmacol Ther* 90, 1-19. 3. Takumi, T. et al. (1988) *Science* 242, 1042-5. 4. Abbott, G.W. and Goldstein, S.A. (2001) *Mol Interv* 1, 95-107. 5. McCrossan, Z.A. and Abbott, G.W. (2004) *Neuropharmacology* 47, 787-821. 6. Barhanin, J. et al. (1996) *Nature* 384, 78-80. 7. Sanguinetti, M.C. et al. (1996) *Nature* 384, 80-3. 8. Splawski, I. et al. (1997) *Nat Genet* 17, 338-40. 9. Abbott, G.W. and Goldstein, S.A. (2002) *FASEB J* 16, 390-400. 10. Tian, C. et al. (2007) *Biochemistry* 46, 11459-72. 11. Peters, T.A. et al. (2004) *Pediatr Nephrol* 19, 1194-201.

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