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KCNE1 Antibody (monoclonal) (M13)

Mouse monoclonal antibody raised against a full length recombinant KCNE1.
Catalog # AT2593a

Product Information

Application	IP, E
Primary Accession	P15382
Other Accession	BC036452
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2A6
Calculated MW	14675

Additional Information

Gene ID	3753
Other Names	Potassium voltage-gated channel subfamily E member 1, Delayed rectifier potassium channel subunit IsK, IKs producing slow voltage-gated potassium channel subunit beta Mink, Minimal potassium channel, KCNE1
Target/Specificity	KCNE1 (AAH36452, 1 a.a. ~ 105 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	KCNE1 Antibody (monoclonal) (M13) is for research use only and not for use in diagnostic or therapeutic procedures.

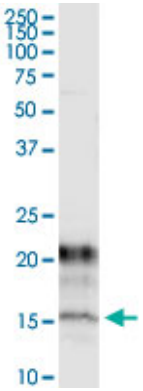
Background

The product of this gene belongs to the potassium channel KCNE family. Potassium ion channels are essential to many cellular functions and show a high degree of diversity, varying in their electrophysiologic and pharmacologic properties. This gene encodes a transmembrane protein known to associate with the product of the KVLQT1 gene to form the delayed rectifier potassium channel. Mutation in this gene are associated with both Jervell and Lange-Nielsen and Romano-Ward forms of long-QT syndrome. Alternatively spliced transcript variants encoding the same protein have been identified.

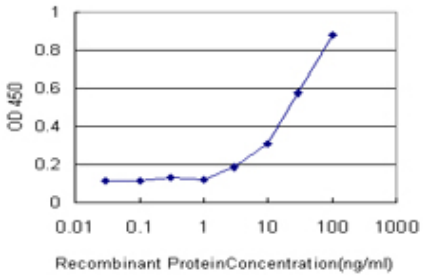
References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Causes of hearing impairment in the Norwegian paediatric cochlear implant program. Siem G, et al. Int J Audiol, 2010 Aug. PMID 20553101.Identification of a protein-protein interaction between KCNE1 and the activation gate machinery of KCNQ1. Lvov A, et al. J Gen Physiol, 2010 Jun. PMID 20479109.L-type voltage-dependent calcium channel alpha subunit 1C is a novel candidate gene associated with secondary hyperparathyroidism: an application of haplotype-based analysis for multiple linked single nucleotide polymorphisms. Yokoyama K, et al. Nephron Clin Pract, 2010. PMID 20424473.Common variants in cardiac ion channel genes are associated with sudden cardiac death. Albert CM, et al. Circ Arrhythm Electrophysiol, 2010 Jun 1. PMID 20400777.

Images



Immunoprecipitation of KCNE1 transfected lysate using anti-KCNE1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with KCNE1 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged KCNE1 is approximately 3ng/ml as a capture antibody.