

Product datasheet for **AM06707SU-N**

KCNQ1 Mouse Monoclonal Antibody [Clone ID: 5E12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5E12
Applications:	ELISA, FC, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human KCNQ1 expressed in E. Coli.
Specificity:	This antibody reacts to KCNQ1.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	95 kDa
Gene Name:	potassium voltage-gated channel subfamily Q member 1
Database Link:	Entrez Gene 3784 Human P51787



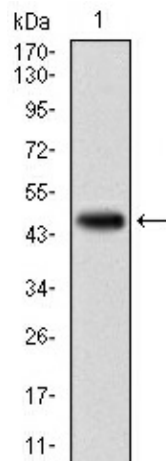
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Background:

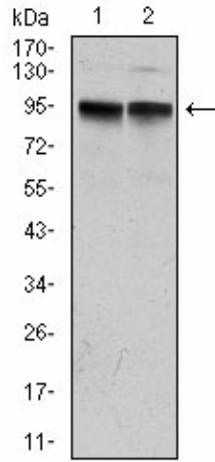
This gene encodes a voltage-gated potassium channel required for repolarization phase of the cardiac action potential. This protein can form heteromultimers with two other potassium channel proteins, KCNE1 and KCNE3. Mutations in this gene are associated with hereditary long QT syndrome 1 (also known as Romano-Ward syndrome), Jervell and Lange-Nielsen syndrome, and familial atrial fibrillation. This gene exhibits tissue-specific imprinting, with preferential expression from the maternal allele in some tissues, and biallelic expression in others. This gene is located in a region of chromosome 11 amongst other imprinted genes that are associated with Beckwith-Wiedemann syndrome (BWS), and itself has been shown to be disrupted by chromosomal rearrangements in patients with BWS. Alternatively spliced transcript variants have been found for this gene.

Synonyms:

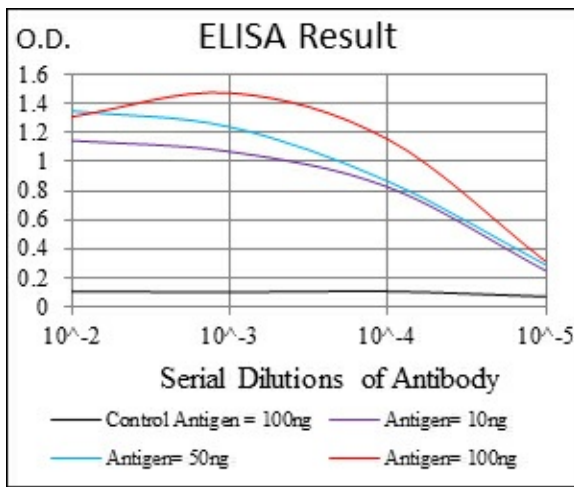
KCNA8, KCNA9, KVLQT1, KQT-like 1, Potassium voltage-gated channel subfamily KQT member 1, Voltage-gated potassium channel subunit Kv7.1

Product images:

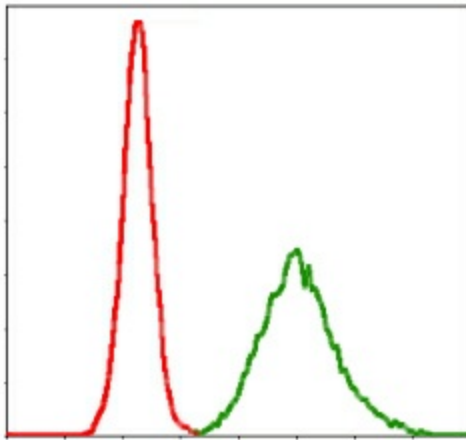
Western blot analysis using KCNQ1 mAb against human KCNQ1 (AA: 229-347) recombinant protein. (Expected MW is 74.7 kDa)



Western blot analysis using KCNQ1 mouse mAb against MCF-7 (1) and A431 (2) cell lysate.



Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Flow cytometric analysis of MCF-7 cells using KCNQ1 mouse mAb (green) and negative control (red).