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Research Use Only. Not for diagnostic or therapeutic use.

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

EB09214 - Goat Anti-KCNQ1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: slow delayed rectifier channel subunit, long (electrocardiographic) QT syndrome, Ward-Romano syndrome 1, kidney and cardiac voltage dependend K+ channel, Jervell and Lange-Nielsen syndrome 1, WRS, SQT2, RWS, LQT1, LQT, Kv7.1, Kv1.9, KVLQT1, KCNA9, KCNA8, JLNS1, FLJ26167, ATFB1, potassium voltage-gated channel, KQT-like subfamily, member 1, KCNQ1
Official Symbol: KCNQ1
Accession Number(s): NP_000209.2; NP_861463.1
Human GeneID(s): 3784
Non-Human GeneID(s): 16535 (mouse), 84020 (rat)
Important Comments: This antibody is expected to recognize both reported isoforms (NP_000209.2; NP_861463.1).

Immunogen

Peptide with sequence C-EQLTVPRRGPDEGS, from the C Terminus of the protein sequence according to NP_000209.2; NP_861463.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

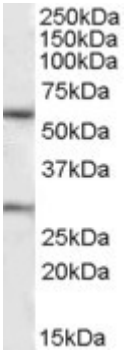
Peptide ELISA: antibody detection limit dilution 1:16000.
Western blot: Approx. 60kDa band observed in Human Heart lysates (calculated MW of 61.5kDa according to NP_861463.1). Recommended concentration: 1-3µg/ml. An additional band of unknown identity was also consistently observed at 28kDa. This band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any such results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

Species Reactivity

Tested: Human
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow

Background Reference

Yasuda K, Miyake K, Horikawa Y, Hara K, Osawa H, Furuta H, Hirota Y, Mori H, Jonsson A, Sato Y, Yamagata K, Hinokio Y, Wang HY, Tanahashi T, Nakamura N, Oka Y, Iwasaki N, Iwamoto Y, Yamada Y, Seino Y, Maegawa H, Kashiwagi A, Takeda J, Maeda E, Shin HD, Cho YM, Park KS, Lee HK, Ng MC, Ma RC, So WY, Chan JC, Lyssenko V, Tuomi T, Nilsson P, Groop L, Kamatani N, Sekine A, Nakamura Y, Yamamoto K, Yoshida T, Tokunaga K, Itakura M, Makino H, Nanjo K, Kadowaki T, Kasuga M.
Variants in KCNQ1 are associated with susceptibility to type 2 diabetes mellitus.
Nat Genet. 2008 Aug 17. [Epub ahead of print].
PMID: 18711367



EB09214 (1µg/ml) staining of Human Heart lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.