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Research Use Only. Not for diagnostic or therapeutic use.

EB09214 - Goat Anti-KCNQ1 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: KCNQ1, potassium voltage-gated channel, KQT-like subfamily, member 1, ATFB1, FLJ26167, JLNS1, KCNA8, KCNA9, KVLQT1, Kv1.9, Kv7.1, LQT, LQT1, RWS, SQT2, WRS, Jervell and Lange-Nielsen syndrome 1, kidney and cardiac voltage dependend K+ channel, long (electrocardiographic) QT syndrome, Ward-Romano syndrome 1, slow delayed rectifier channel subunit

Official Symbol: KCNQ1

Accession Number(s): NP_000209.2; NP_861463.1

Human GeneID(s): 3784

Non-Human GenelD(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. Primary incubation was 1 hour.

IHC: Paraffin embedded Rat Liver. Recommended concentration: 6-8µg/ml.

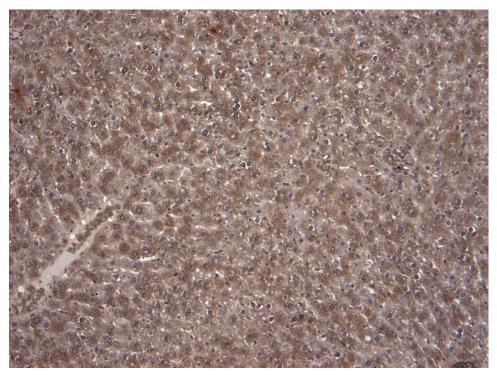
Species Reactivity

Tested: Human, Rat

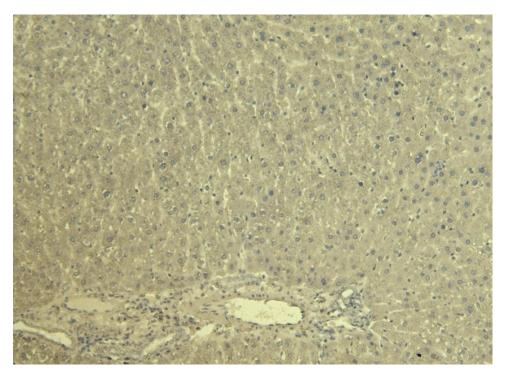
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



EB09214 (1 μ g/ml) staining of Human Heart lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB09214 (8μg/ml) staining of paraffin embedded Rat Liver. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



 ${\tt EB09214\ Negative\ Control\ showing\ staining\ of\ paraffin\ embedded\ Rat\ Liver,\ with\ no\ primary\ antibody.}$