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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.

EB09212 - Goat Anti-KCNQ5 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: potassium channel protein, OTTHUMP00000064153, OTTHUMP00000064152, OTTHUMP00000016729, Kv7.5, potassium voltage-gated channel, KQT-like subfamily, member 5, KCNQ5
Official Symbol: KCNQ5
Accession Number(s): NP_062816.2; NP_001153602.1; NP_001153604.1; NP_1153605.1; NP_001153606.1
Human GeneID(s): 56479
Non-Human GeneID(s): 226922 (mouse), 259273 (rat)
Important Comments: This antibody is expected to cross-react with isoform 1, 2, 3, 4 and 5 (NP_062816.2; NP_001153602.1; NP_001153604.1; NP_1153605.1; NP_001153606.1).

Immunogen

Peptide with sequence C-ESTDALSLPHVKLK, from the C Terminus of the protein sequence according to NP_062816.2; NP_001153602.1; NP_001153604.1; NP_1153605.1; NP_001153606.1.

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 1:64000.
Western blot: Preliminary experiments gave an approx. 22kDa band in Human Brain (Hippocampus and Cerebral Cortex) and Human Skeletal Muscle lysates after 0.3 µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 102kDa according to NP_062816.2. The 22kDa band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

Species Reactivity

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