

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB09212 - Goat Anti-KCNQ5 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** KCNQ5, potassium voltage-gated channel, KQT-like subfamily, member 5, Kv7.5, OTTHUMP00000016729, OTTHUMP00000064152, OTTHUMP00000064153, potassium channel protein

**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