

Anti-KCNQ2 Antibody

Catalog Number: PA2299

About KCNQ2

KCNQ2, also called kv7.2, is a potassium channel protein coded for by the gene KCNQ2. It is mapped to 20q13.33. The KCNQ2 gene encodes a voltage-gated potassium channel that is expressed in the brain. Expression of human KCNQ2 in *Xenopus laevis* oocytes led to potassium-selective currents that activated slowly with depolarization. Defects in this gene are a cause of benign familial neonatal convulsions type 1 (BFNC), also known as epilepsy, benign neonatal type 1 (EBN1). At least five transcript variants encoding five different isoforms have been found for this gene.

Overview

Product Name	Anti-KCNQ2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-KCNQ2 Antibody catalog # PA2299. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal WH-3
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O43526

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human KCNQ2, different from the related mouse and rat sequences by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse

Anti-KCNQ2 Antibody (PA2299) Images



Anti-KCNQ2 antibody, PA2299, All Western blotting
All lanes: Anti-KCNQ2(PA2299) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 40ug
Predicted bind size: 96KD
Observed bind size: 96KD

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