

KCNQ2/3/4/5 Polyclonal Antibody

Description

Product type Primary Antibody

Code BT-AP04772

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human Kv7.3/KCNQ3. AA

range:191-240

Mol wt 96742

Species reactivity Human, Mouse, Rat

Clonality Polyclonal

Recommended application IHC-p, ELISA

Concentration 1 mg/ml

Full name KCNQ2/3/4/5 Antibody

Synonyms KCNQ2; Potassium voltage-gated channel subfamily KQT member 2; KQT-like 2; Neuroblastoma-specific

potassium channel subunit alpha KvLQT2; Voltage-gated potassium channel subunit Kv7.2; KCNQ3;

Potassiu

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

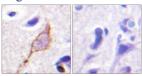
The M channel is a slowly activating and deactivating potassium channel that plays a critical role in the regulation of neuronal excitability. The M channel is formed by the association of the protein encoded by this gene and a related protein encoded by the KCNQ3 gene, both integral membrane proteins. M channel currents are inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. Defects in KCNQ2 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.

Recommended Dilution

IHC: 1: 100 - 1: 300 ELISA: 1: 10000

Not yet tested in other applications.

Images



 $Immun ohistochemistry\ analysis\ of\ paraffin-embedded\ human\ brain\ tissue,\ using\ Kv7.3/KCNQ3$ Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year