

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.

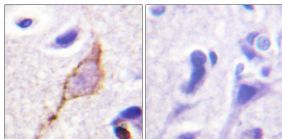
Recommended Dilution

IHC: 1: 100 - 1: 300

ELISA: 1: 10000

Not yet tested in other applications.

Images



Immunohistochemistry 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