

KCNQ3 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2930a**Specification**

KCNQ3 Antibody (C-Term) - Product Information

Application	E
Primary Accession	O43525
Other Accession	NP_004510.1 , 3786 , 110862 (mouse) , 29682 (rat)
Predicted Host	Human, Mouse, Rat, Pig
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	96742

KCNQ3 Antibody (C-Term) - Additional Information**Gene ID** 3786**Other Names**

Potassium voltage-gated channel subfamily KQT member 3, KQT-like 3, Potassium channel subunit alpha KvLQT3, Voltage-gated potassium channel subunit Kv7.3, KCNQ3

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

KCNQ3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNQ3 Antibody (C-Term) - Protein Information**Name** KCNQ3 ([HGNC:6297](#))**Function**

Associates with KCNQ2 or KCNQ5 to form a potassium channel with essentially identical properties to the channel underlying the native M-current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons as well as the responsiveness to synaptic inputs. Therefore, it is important in the regulation of neuronal excitability. KCNQ2-KCNQ3 channel is selectively permeable to other cations besides potassium, in decreasing order of affinity K(+) > Rb(+) > Cs(+) > Na(+).

Associates with Na(+)-coupled myo-inositol symporter SLC5A3 forming a coregulatory complex that alters ion selectivity, increasing Na(+) and Cs(+) permeation relative to K(+) permeation (PubMed:28793216).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Predominantly expressed in brain.

KCNQ3 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCNQ3 Antibody (C-Term) - Images**KCNQ3 Antibody (C-Term) - References**

Regulation of the voltage-gated K(+) channels KCNQ2/3 and KCNQ3/5 by ubiquitination. Novel role for Nedd4-2. Ekberg J, Schuetz F, Boase NA, Conroy SJ, Manning J, Kumar S, Poronnik P, Adams DJ. J Biol Chem. 2007 Apr 20;282(16):12135-42. PMID: 17322297