Product Datasheet

KCNQ5 Antibody

Catalog No: #34920

Package Size: #34920-1 50ul #34920-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

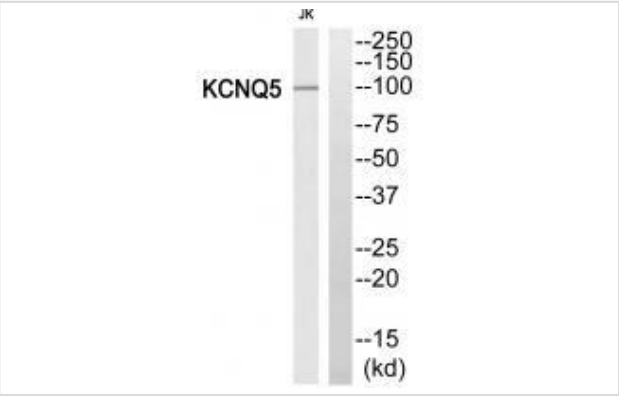
Description

Product Name	KCNQ5 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total KCNQ5 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human KCNQ5.
Target Name	KCNQ5
Other Names	Potassium voltage-gated channel subfamily KQT member 5; Voltage-gated potassium channel subunit Kv7.5; Potassium channel subunit alpha KvLQT5; KQT-like 5;
Accession No.	Swiss-Prot: Q9NR82NCBI Gene ID: 56479
Uniprot	Q9NR82
GeneID	56479;
SDS-PAGE MW	100kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from Jurkat cells, using KCNQ5 antibody #34920.

Background

Probably important in the regulation of neuronal excitability. Associates with KCNQ3 to form a potassium channel which contributes to M-type current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons. May contribute, with other potassium channels, to the molecular diversity of a heterogeneous population of M-channels, varying in kinetic and pharmacological properties, which underlie this physiologically important current. Insensitive to tetraethylammonium, but inhibited by barium, linopirdine and XE991. Activated by niflumic acid and the anticonvulsant retigabine. Muscarine suppresses KCNQ5 current in Xenopus oocytes in which cloned KCNQ5 channels were coexpressed with M1 muscarinic receptors.

Lerche C., J. Biol. Chem. 275:22395-22400(2000).
Mungall A.J., Nature 425:805-811(2003).
Schroeder B.C., J. Biol. Chem. 275:24089-24095(2000).

Note: This product is for in vitro research use only