





KCNQ5 Polyclonal Antibody

PA1-941 Product data sheet **Catalog Number**

Details	
Size	200 µg
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	Synthetic peptide corresponding to residues C(880) K A G E S T D A L S L P H V K L K(897) of human KCNQ5 protein.
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human, Rat
Published species	Rat, Mouse
Tested Applications	Dilution *

Western Blot (WB)	1:250
*O	

experiment using appropriate negative and positive controls.

Product specific information

PA1-941 detects the KCNQ5 from rat and human samples. This antibody is specific for KCNQ5 and does not detect KCNQ1, KCNQ2, KCNQ3 or KCNQ4. PA1-941 has been successfully used in Western blot procedures. By Western blot, this antibody detects a ~125 kDa band representing KCNQ5 from rat brain extract. The PA1-941 immunizing peptide corresponds to amino acid residues 880-897 from human KCNQ5.

Background/Target Information

KCNQs are members of the voltage-dependent non-inactivating potassium channel family. Currently there are five known KNCQs (KCNQ1-5) found in the central nervous system. Studies have shown that KCNQ3 and KCNQ5 form heteromultimers that, when formed, substantially increase the Mcurrent. Inhibition of M-current controls neuron excitability throughout the nervous system as well as the responsiveness to synaptic inputs. Genetic mutations in these proteins have been linked to disorders such as benign familial neonatal convulsions (BFNC), deafness, neuropathic pain and epilepsy. Voltage-dependent potassium channels are key regulators of the resting membrane potential and modulate the excitability of electrically active cells. The channels are usually tetrameric and can interact with auxiliary subunits that enhance or modify currents mediated by the pore-forming subunits.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR W for research only and is not to be used for any other purpose, including without limitation, unauthorized

