abcam

Product datasheet

Anti-KCNQ5 antibody ab96707

1 References 1 Image

Overview

Product name	Anti-KCNQ5 antibody
Description	Rabbit polyclonal to KCNQ5
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Recombinant protein fragment containing a sequence corresponding to a region within amino acids 458 and 684 of Human KCNQ5
Positive control	293T, A431, H1299 or HeLaS3 cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab96707** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

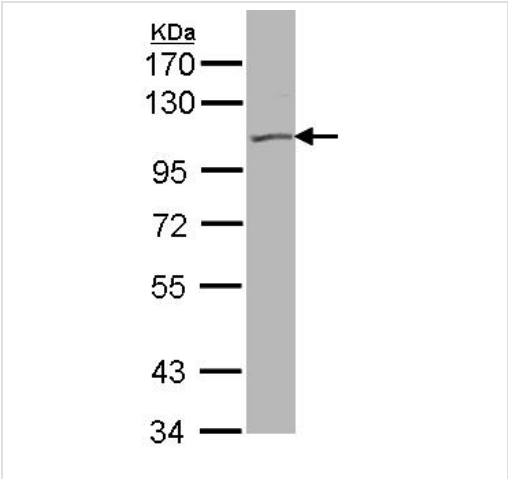
Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 102 kDa.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration. PubMed: 24297175

Target

Function	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 an 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 M(1) muscarinic receptors.
Tissue specificity	Strongly expressed in brain and skeletal muscle. In brain, expressed in cerebral cortex, occipital pole, frontal lobe and temporal lobe. Lower levels in hippocampus and putamen. Low to undetectable levels in medulla, cerebellum and thalamus.
Sequence similarities	Belongs to the potassium channel family. KQT (TC 1.A.1.15) subfamily. Kv7.5/KCNQ5 sub-subfamily.
Domain	The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.
Cellular localization	Membrane.

Images



Western blot - Anti-KCNQ5 antibody (ab96707)

Anti-KCNQ5 antibody (ab96707) at 1/500 dilution + 293T whole cell lysate at 30 µg

Predicted band size: 102 kDa

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