abcam

Product datasheet

Anti-Kv1.4/RK3 antibody ab191052

2 References 1 Image

Overview

Product name	Anti-Kv1.4/RK3 antibody
Description	Rabbit polyclonal to Kv1.4/RK3
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Rat, Human **Predicted to work with:** Mouse, Cow
Immunogen	Synthetic peptide corresponding to Human Kv1.4/RK3 aa 300-400 (internal sequence). Database link: **P22459** Run BLAST with Run BLAST with
Positive control	Rat brain tissue lysate; HY1080, PANC, U87 and SHG cell lysates
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab191052 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		Use a concentration of 0.1 - 0.5 µg/ml. Predicted molecular weight: 73 kDa.

Target

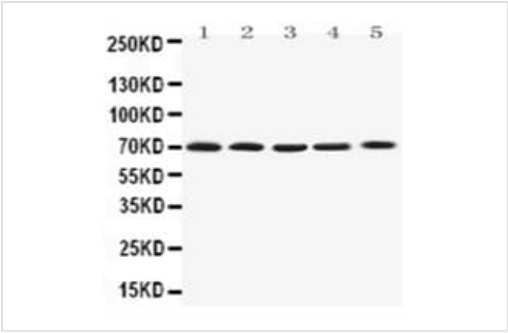
Function Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.

Sequence similarities Belongs to the potassium channel family. A (Shaker) (TC 1.A.1.2) subfamily. Kv1.4/KCNA4 sub-subfamily.

Domain The N-terminus may be important in determining the rate of inactivation of the channel while the tail may play a role in modulation of channel activity and/or targeting of the channel to specific subcellular compartments.
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-Kv1.4/RK3 antibody (ab191052)

All lanes : Anti-Kv1.4/RK3 antibody (ab191052) at 0.5 µg/ml

Lane 1 : Rat brain tissue Lysate
Lane 2 : HY1080 Whole Cell Lysate
Lane 3 : PANC Whole Cell Lysate
Lane 4 : U87 Whole Cell Lysate
Lane 5 : SHG Whole Cell Lysate

Predicted band size: 73 kDa

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