abcam

Product datasheet

Anti-Kv1.4/RK3 antibody ab16718

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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	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.08% Sodium azide Constituent: PBS
Purity	Ammonium Sulphate Precipitation
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab16718 in the following tested applications.

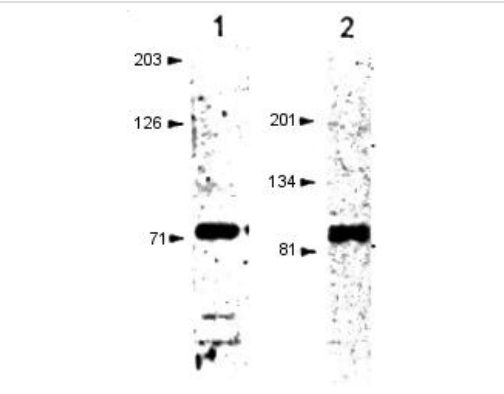
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (1)	Use a concentration of 1 - 10 µg/ml. Predicted molecular weight: 73 kDa. Detects a band of approximately 76 KDa in HEK293 lysate and 90 kDa in rat hippocampal membranes.

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 (ab16718)

Western blots using ab16718.

1: HEK293 cells transfected with Kv1.4/RK3.

2: Rat hippocampal membrane.

The size difference observed can probably be explained by differential post-translational processing.

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