




Product datasheet

Anti-ABCC9 antibody [N319A/14] - C-terminal ab174629

1 References 2 Images

Overview

Product name	Anti-ABCC9 antibody [N319A/14] - C-terminal
Description	Mouse monoclonal [N319A/14] to ABCC9 - C-terminal
Host species	Mouse
Specificity	ab174629 does not crossreact with SUR2B.
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat Predicted to work with: Rabbit, Human 
Immunogen	Fusion protein corresponding to Mouse ABCC9 aa 1505-1546 (C terminal). Sequence: SSVDAGLVLVFSEGILVECDTGPNLLQH KNGLFSTLVMTNK Database link: P70170  Run BLAST with  Run BLAST with
Positive control	WB: Rat brain membrane lysate. ICC/IF: SK-N-BE cells.
General notes	The clone number has been updated from S319A-14 to N319A/14, both clone numbers name the same antibody clone.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own

labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N319A/14
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab174629** 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
IHC-P		Use at an assay dependent concentration.
WB		1/1000. Predicted molecular weight: 174 kDa.

Target

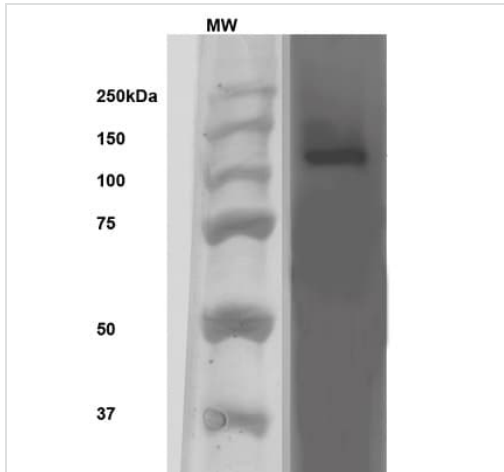
Function	Subunit of ATP-sensitive potassium channels (KATP). Can form cardiac and smooth muscle-type KATP channels with KCNJ11. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation.
Involvement in disease	Defects in ABCC9 are the cause of cardiomyopathy dilated type 10 (CMD10) [MIM:608569]; also known as dilated cardiomyopathy with ventricular tachycardia. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death. Defects in ABCC9 are the cause of familial atrial fibrillation type 12 (ATFB12) [MIM:614050]. ATFB12 is a familial form of atrial fibrillation, a common sustained cardiac rhythm disturbance. Atrial fibrillation is characterized by disorganized atrial electrical activity and ineffective atrial contraction promoting blood stasis in the atria and reduces ventricular filling. It can result in palpitations, syncope, thromboembolic stroke, and congestive heart failure.
Sequence similarities	Belongs to the ABC transporter superfamily. ABCC family. Conjugate transporter (TC 3.A.1.208)

subfamily.
Contains 2 ABC transmembrane type-1 domains.
Contains 2 ABC transporter domains.

Cellular localization

Membrane.

Images



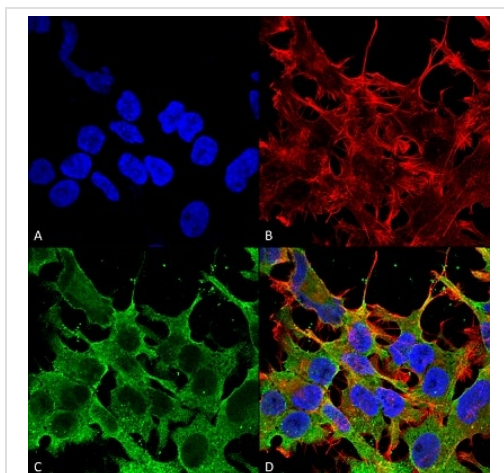
Western blot - Anti-ABCC9 antibody [N319A/14] - C-terminal (ab174629)

Anti-ABCC9 antibody [N319A/14] - C-terminal (ab174629) at 1/1000 dilution + Rat brain membrane lysate at 10 µg

Secondary

Goat anti-mouse IgG at 1/200 dilution

Predicted band size: 174 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABCC9 antibody [N319A/14] - C-terminal (ab174629)

4% formaldehyde-fixed SK-N-BE cells labeling ABCC9 using ab174629 at 1/100 dilution in ICC/IF. Cells were fixed for 15 minutes at room temperature and incubated with primary antibody for 1 hour at room temperature. Secondary antibody was a goat anti-mouse ATTO 488 (green) at 1/100 dilution incubated for 1 hour at room temperature. Counter stained with Phalloidin Texas Red F-actin stain. Nuclei were stained with DAPI (blue).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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