



ABCC9 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59059

Specification

ABCC9 Polyclonal Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Physical State
Immunogen

Epitope Specificity Isotype **Purity** affinity purified by Protein A

Buffer

SUBCELLULAR LOCATION SIMILARITY

DISEASE

WB, IHC-P, IHC-F, IF, ICC

O60706
Rat, Pig, Dog
Rabbit
Polyclonal
174 KDa
Liquid

KLH conjugated synthetic peptide derived from human ABCC9 501-600/1549

IaG

Preservative: 0.02% Proclin300,

Constituents: 1% BSA, 0.01M PBS, pH7.4.

Membrane.

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.

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.



Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein is thought to form ATP-sensitive potassium channels in cardiac, skeletal, and vascular and non-vascular smooth muscle. Protein structure suggests a role as the drug-binding channel-modulating subunit of the extra-pancreatic ATP-sensitive potassium channels. Mutations in this gene are associated with cardiomyopathy dilated type 10. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2011]

ABCC9 Polyclonal Antibody - Additional Information

Gene ID 10060

Other Names

ATP-binding cassette sub-family C member 9, Sulfonylurea receptor 2, ABCC9, SUR2

Dilution

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<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span>
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Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

ABCC9 Polyclonal Antibody - Protein Information

Name ABCC9

Synonyms SUR2 {ECO:0000303|PubMed:31575858}

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 (PubMed:9831708). Can form a sulfonylurea-sensitive but ATP-insensitive potassium channel with KCNJ8 (By similarity).

Cellular Location

 $\label{lem:lembrane} Membrane \ \{ECO:0000255|PROSITE-ProRule:PRU00441\}; \ Multi-pass \ membrane \ protein \ \{ECO:0000255|PROSITE-ProRule:PRU00441\}$

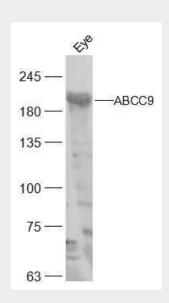
ABCC9 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.



- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ABCC9 Polyclonal Antibody - Images



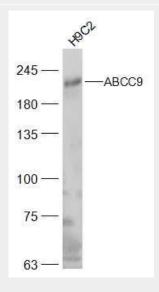
Sample:

Eye (Mouse) Lysate at 40 ug

Primary: Anti-ABCC9 (bs-8668R) at 1/300 dilution

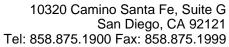
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 194 kD Observed band size: 194 kD



Sample:

Eye (Mouse) Lysate at 40 ug





H9C2 (Rat) Lysate at 30 ug

Primary: Anti-ABCC9 (bs-8668R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 194 kD Observed band size: 204 kD