SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

**[ Primary Antibody ]**

# Rabbit Anti-ABCC9 antibody

**Catalog Number: SL8668R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

| | |
|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | ABCC9 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human ABCC9: 501-600/1549 <Extracellular> |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 1M PBS, pH 7.4 Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse,Rat(predicted:Human,Dog,Pig,Horse,Sheep) |
| **Predicted MW.:** | 174kDa |
| **Subcellular Location:** | The cell membrane |
| **Background:** | 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 1O. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2011] **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. |

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

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|---|---|
| | **Subcellular Location:** Membrane.<br>DISEASE: Defects in ABCC9 are the cause of cardiomyopathy dilated type 1O (CMD1O) [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.<br>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.<br>**Similarity:** Belongs to the ABC transporter superfamily.<br>ABCC family. Conjugate transporter (TC 3.A.1.208) subfamily.<br>Contains 2 ABC transmembrane type-1 domains.<br>Contains 2 ABC transporter domains.<br>**Database links:**<br>**Entrez Gene:** 10060 Human<br>**Entrez Gene:** 20928 Mouse<br>**Entrez Gene:** 100008700 Rabbit<br>**Entrez Gene:** 25560 Rat<br>Omim: 601439 Human<br>**SwissProt:** O60706 Human<br>**SwissProt:** P70170 Mouse<br>**SwissProt:** P82451 Rabbit<br>**SwissProt:** Q63563 Rat<br>**Unigene:** 446050 Human<br>**Unigene:** 732701 Human<br>**Unigene:** 35670 Mouse<br>**Unigene:** 395475 Mouse<br>**Unigene:** 10528 Rat<br>**Unigene:** 164431 Rat |

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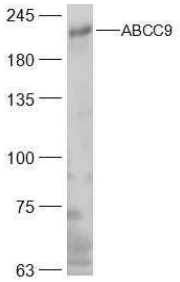
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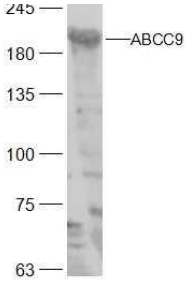
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## [ VALIDATION IMAGES ]




Sample:
Eye (Mouse) Lysate at 40 ug
H9C2 (Rat) Lysate at 30 ug
Primary: Anti-ABCC9 (SL8668R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 194 kD
Observed band size: 204 kD




Sample:
Eye (Mouse) Lysate at 40 ug
Primary: Anti-ABCC9 (SL8668R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 194 kD
Observed band size: 194 kD

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