

**ABCB8 Antibody (N-term) Blocking Peptide**  
Synthetic peptide  
Catalog # BP6129a**Specification**

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**ABCB8 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O9NUT2](#)**ABCB8 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 11194

**Other Names**

ATP-binding cassette sub-family B member 8, mitochondrial, Mitochondrial ATP-binding cassette 1, M-ABC1, ABCB8, MABC1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6129a](/products/AP6129a) was selected from the N-term region of human ABCB8. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ABCB8 Antibody (N-term) Blocking Peptide - Protein Information**

Name ABCB8 {ECO:0000303|PubMed:25944712, ECO:0000312|HGNC:HGNC:49}

**Function**

ATP-binding subunit of the mitochondrial ATP-gated potassium channel (mitoK(ATP)) (PubMed: [31435016](http://www.uniprot.org/citations/31435016)). Together with pore-forming subunit CCDC51/MITOK of the mitoK(ATP) channel, mediates ATP-dependent potassium currents across the mitochondrial inner membrane (PubMed: [31435016](http://www.uniprot.org/citations/31435016)). An increase in ATP intracellular levels closes the channel, inhibiting K(+) transport, whereas a decrease in ATP levels enhances K(+) uptake in the mitochondrial matrix (PubMed: [31435016](http://www.uniprot.org/citations/31435016)). Plays a role in mitochondrial iron transport (PubMed: [30623799](http://www.uniprot.org/citations/30623799)). Required for maintenance of normal cardiac function, possibly by influencing mitochondrial iron export and regulating the maturation of cytosolic iron sulfur

cluster-containing enzymes (By similarity).

**Cellular Location**

Mitochondrion inner membrane; Multi-pass membrane protein  
{ECO:0000255|PROSITE-ProRule:PRU00441}

**Tissue Location**

Ubiquitous.

**ABCB8 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ABCB8 Antibody (N-term) Blocking Peptide - Images****ABCB8 Antibody (N-term) Blocking Peptide - Background**

ABCB8 is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC proteins are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. The function of this half-transporter has not yet been determined; however, it may involve the compartmentalization and transport of heme, as well as peptides, from the mitochondria to the nucleus and cytosol. The protein may also play a role in the transport of phospholipids into mitochondrial membranes.

**ABCB8 Antibody (N-term) Blocking Peptide - References**

Saito S., Iida A., Sekine A.J. Hum. Genet. 47:38-50(2002)