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# ABCB8 Antibody (N-term) Blocking Peptide

**Synthetic peptide**
**Catalog # BP6129a**

## Specification

### ABCB8 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9NUT2

### 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 <a href=/products/AP6129a>AP6129a</a> 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 potassium channel located in the mitochondrial inner membrane (PubMed:<a href="http://www.uniprot.org/citations/31435016" target="_blank">31435016</a>). Together with CCDC51/MITOK, forms a protein complex localized in the mitochondria that mediates ATP-dependent potassium currents across the inner membrane (that is, mitoK(ATP) channel) (PubMed:<a href="http://www.uniprot.org/citations/31435016" target="_blank">31435016</a>). Plays a role in mitochondrial iron transport (PubMed:<a href="http://www.uniprot.org/citations/30623799" target="_blank">30623799</a>). 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)