

# ABCB10 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP6109a

# **Specification**

# ABCB10 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9NRK6
Other Accession NP\_036221

# ABCB10 Antibody (N-term) Blocking Peptide - Additional Information

## Gene ID 23456

## **Other Names**

ATP-binding cassette sub-family B member 10, mitochondrial, ATP-binding cassette transporter 10, ABC transporter 10 protein, Mitochondrial ATP-binding cassette 2, M-ABC2, ABCB10

## **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP6109a>AP6109a</a> was selected from the N-term region of human ABCB10 . 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.

# ABCB10 Antibody (N-term) Blocking Peptide - Protein Information

## Name ABCB10 (HGNC:41)

## **Function**

ATP-dependent transporter located in the mitochondrial inner membrane that catalyzes the export of biliverdin from the mitochondrial matrix, and plays a crucial role in hemoglobin synthesis and antioxidative stress (PubMed:<a href="http://www.uniprot.org/citations/22085049" target="\_blank">22085049</a>, PubMed:<a href="http://www.uniprot.org/citations/28315685" target="\_blank">28315685</a>, PubMed:<a href="http://www.uniprot.org/citations/28808058" target="\_blank">28808058</a>, PubMed:<a href="http://www.uniprot.org/citations/34011630" target="\_blank">34011630</a>, PubMed:<a href="http://www.uniprot.org/citations/37041204" target="\_blank">37041204</a>). Participates in the early step of the heme biosynthetic process during insertion of iron into protoporphyrin IX (PPIX) (PubMed:<a

 $href="http://www.uniprot.org/citations/22085049"\ target="\_blank">22085049</a>, PubMed:<a https://www.uniprot.org/citations/22085049" target="_blank">22085049</a>, PubMed:<a https://www.uniprot.org/citations/22085049" target="_blank">22085049</a>, PubMed:<a https://www.uniprot.org/citations/22085049" target="_blank">22085049</a>, PubMed:$ 



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href="http://www.uniprot.org/citations/28808058" target=" blank">28808058</a>). Involved in the stabilization of the iron transporter mitoferrin- 1/SLC25A37 (By similarity). In addition may be involved in mitochondrial unfolded protein response (UPRmt) signaling pathway, although ABCB10 probably does not participate in peptide export from mitochondria (PubMed: <a href="http://www.uniprot.org/citations/28315685" target=" blank">28315685</a>).

Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9JI39}; Multi-pass membrane protein

## **Tissue Location**

Ubiquitous. Highly expressed in bone marrow, expressed at intermediate to high levels in skeletal muscle, small intestine, thyroid, heart, brain, placenta, liver, pancreas, prostate, testis, ovary, leukocyte, stomach, spinal cord, lymph node, trachea and adrenal gland, and low levels are found in lung, kidney, spleen, thymus and colon.

# ABCB10 Antibody (N-term) Blocking Peptide - Protocols

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

# Blocking Peptides

ABCB10 Antibody (N-term) Blocking Peptide - Images

## ABCB10 Antibody (N-term) Blocking Peptide - Background

The membrane-associated protein ABCB10 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 MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The function of this mitochondrial protein is unknown.

## ABCB10 Antibody (N-term) Blocking Peptide - References

Zhang, F., et al., J. Biol. Chem. 275(30):23287-23294 (2000). Allikmets, R., et al., Mamm. Genome 6(2):114-117 (1995). Zhang, F., et al., FEBS Lett. 478 (1-2), 89-94 (2000).