

**Anti-ABCB7 Antibody**  
**Rabbit polyclonal antibody to ABCB7**  
**Catalog # AP59471****Specification**

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**Anti-ABCB7 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O75027</a>
Other Accession	<a href="#">Q61102</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	82641

**Anti-ABCB7 Antibody - Additional Information****Gene ID 22****Other Names**

ABC7; ATP-binding cassette sub-family B member 7 mitochondrial; ATP-binding cassette transporter 7; ABC transporter 7 protein

**Target/Specificity**

Recognizes endogenous levels of ABCB7 protein.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-ABCB7 Antibody - Protein Information**

**Name** ABCB7 ([HGNC:48](#))

**Synonyms** ABC7

**Function**

Exports glutathione-coordinated iron-sulfur clusters such as [2Fe-2S]-(GS)<sub>4</sub> cluster from the mitochondria to the cytosol in an ATP- dependent manner allowing the assembly of the cytosolic iron-sulfur (Fe/S) cluster-containing proteins and participates in iron homeostasis (PubMed:<a href="http://www.uniprot.org/citations/10196363" target="\_blank">10196363</a>, PubMed:<a href="http://www.uniprot.org/citations/17192393" target="\_blank">17192393</a>, PubMed:<a href="http://www.uniprot.org/citations/33157103" target="\_blank">33157103</a>). Moreover,

through a functional complex formed of ABCB7, FECH and ABCB10, also plays a role in the cellular iron homeostasis, mitochondrial function and heme biosynthesis (PubMed:<a href="http://www.uniprot.org/citations/30765471" target="\_blank">30765471</a>). In cardiomyocytes, regulates cellular iron homeostasis and cellular reactive oxygen species (ROS) levels through its interaction with COX4I1 (By similarity). May also play a role in hematopoiesis (By similarity).

#### Cellular Location

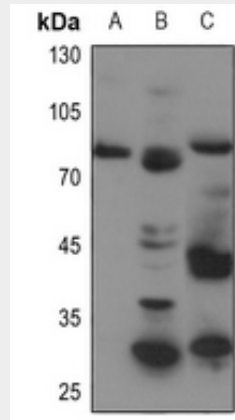
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P40416}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P40416}

#### Anti-ABCB7 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-ABCB7 Antibody - Images



Western blot analysis of ABCB7 expression in HEK293T (A), HeLa (B), mouse lung (C) whole cell lysates.

#### Anti-ABCB7 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ABCB7. The exact sequence is proprietary.