

# **ABCB10 Polyclonal Antibody**

Catalog # AP68228

### **Product Information**

Application WB, IHC-P, IF
Primary Accession Q9NRK6
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 79148

#### **Additional Information**

**Gene ID** 23456

Other Names ABCB10; 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

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other

applications. IHC-P~~N/A IF~~1:50~200

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **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: 22085049, PubMed: 28315685, PubMed: 28808058,

PubMed:34011630, PubMed:37041204). Participates in the early step of the heme biosynthetic process during insertion of iron into protoporphyrin IX (PPIX) (PubMed:22085049, PubMed:28808058). 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: 28315685).

**Cellular Location** Mitochondrion inner membrane {ECO:0000250 | UniProtKB:Q9|I39};

Multi-pass membrane protein

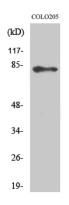
#### **Tissue Location**

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.

# **Background**

May mediate critical mitochondrial transport functions related to heme biosynthesis.

## **Images**



Western Blot analysis of various cells using ABCB10 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.