

**ABCC3 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10144c****Specification**

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**ABCC3 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O15438](#)  
Other Accession [NP\\_003777.2](#), [NP\\_001137542.1](#)

**ABCC3 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 8714

**Other Names**

Canalicular multispecific organic anion transporter 2, ATP-binding cassette sub-family C member 3, Multi-specific organic anion transporter D, MOAT-D, Multidrug resistance-associated protein 3, ABCC3, CMOAT2, MLP2, MRP3

**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.

**ABCC3 Antibody (Center) Blocking peptide - Protein Information**

**Name** ABCC3 ([HGNC:54](#))

**Synonyms** CMOAT2, MLP2, MRP3

**Function**

ATP-dependent transporter of the ATP-binding cassette (ABC) family that binds and hydrolyzes ATP to enable active transport of various substrates including many drugs, toxicants and endogenous compound across cell membranes (PubMed: <a href="http://www.uniprot.org/citations/11581266" target="\_blank">11581266</a>, PubMed: <a href="http://www.uniprot.org/citations/15083066" target="\_blank">15083066</a>, PubMed: <a href="http://www.uniprot.org/citations/10359813" target="\_blank">10359813</a>). Transports glucuronide conjugates such as bilirubin diglucuronide, estradiol-17-beta-o-glucuronide and GSH conjugates such as leukotriene C4 (LTC4) (PubMed: <a href="http://www.uniprot.org/citations/15083066" target="\_blank">15083066</a>, PubMed: <a href="http://www.uniprot.org/citations/11581266" target="\_blank">11581266</a>). Transports also various bile salts (taurocholate, glycocholate, taurochenodeoxycholate-3-sulfate, tauroolithocholate- 3-sulfate) (By similarity). Does not contribute substantially to bile salt physiology but provides an alternative route for the export of bile acids and glucuronides from cholestatic hepatocytes (By similarity). May contribute to regulate the transport of organic compounds in

testes across the blood-testis-barrier (Probable). Can confer resistance to various anticancer drugs, methotrexate, tenoposide and etoposide, by decreasing accumulation of these drugs in cells (PubMed:<a href="http://www.uniprot.org/citations/11581266" target="\_blank">11581266</a>, PubMed:<a href="http://www.uniprot.org/citations/10359813" target="\_blank">10359813</a>).

#### **Cellular Location**

Basolateral cell membrane; Multi-pass membrane protein. Basal cell membrane; Multi-pass membrane protein. Note=Localized to the basolateral membrane of enterocytes (PubMed:28408210). Localized to the basal membrane of Sertoli cells (PubMed:35307651).

#### **Tissue Location**

Mainly expressed in the liver. Also expressed in small intestine, colon, prostate, testis, brain and at a lower level in the kidney. In testis, localized to peritubular myoid cells, Leydig cells, along the basal membrane of Sertoli cells and moderately in the adluminal compartment of the seminiferous tubules (PubMed:35307651)

### **ABCC3 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **ABCC3 Antibody (Center) Blocking peptide - Images**

### **ABCC3 Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene 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 MRP subfamily which is involved in multi-drug resistance. The specific function of this protein has not yet been determined; however, this protein may play a role in the transport of biliary and intestinal excretion of organic anions. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized.

### **ABCC3 Antibody (Center) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Hoffman, A.D., et al. Protein J. 29(5):373-379(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Moyer, A.M., et al. Cancer Epidemiol. Biomarkers Prev. 19(3):811-821(2010)