

## ABCC1 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP6596b

### **Specification**

ABCC1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession <u>P33527</u>

ABCC1 Antibody (C-term) Blocking Peptide - Additional Information

**Gene ID 4363** 

#### **Other Names**

Multidrug resistance-associated protein 1, ATP-binding cassette sub-family C member 1, Leukotriene C(4) transporter, LTC4 transporter, ABCC1, MRP, MRP1

## **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/products/AP6596b>AP6596b</a> was selected from the C-term region of human ABCC1. 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.

ABCC1 Antibody (C-term) Blocking Peptide - Protein Information

Name ABCC1 (HGNC:51)

# ABCC1 Antibody (C-term) Blocking Peptide - Background

ABCC1 is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra-and intra-cellular membranes. ABC gene are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This full transporter is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a multispecific organic anion transporter, with oxidized glutatione, cysteinyl leukotrienes, and activated aflatoxin B1 as substrates. This protein also transports glucuronides and sulfate conjugates of steroid hormones and bile salts.

## ABCC1 Antibody (C-term) Blocking Peptide - References

Siedlinski, M., Pharmacogenet. Genomics 19 (9), 675-684 (2009)



### Synonyms MRP, MRP1

#### **Function**

Mediates export of organic anions and drugs from the cytoplasm (PubMed:<a href = "http://www.uniprot.org/citations/7961706" target="\_blank">7961706</a>,

PubMed:<a href="http://www.uniprot.org/ci tations/16230346"

target="\_blank">16230346</a>,

PubMed: <a href="http://www.uniprot.org/ci tations/9281595"

target=" blank">9281595</a>,

PubMed: <a href="http://www.uniprot.org/ci tations/10064732"

target=" blank">10064732</a>,

PubMed:<a href="http://www.uniprot.org/ci tations/11114332"

target="\_blank">11114332</a>). Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4,

estradiol-17- beta-o-glucuronide,

methotrexate, antiviral drugs and other

xenobiotics (PubMed:<a href="http://www.u niprot.org/citations/7961706"

target=" blank">7961706</a>,

PubMed:<a href="http://www.uniprot.org/ci tations/16230346"

target=" blank">16230346</a>,

PubMed:<a href="http://www.uniprot.org/ci tations/9281595"

target=" blank">9281595</a>,

PubMed: <a href="http://www.uniprot.org/ci tations/10064732"

target=" blank">10064732</a>,

PubMed:<a href="http://www.uniprot.org/ci tations/11114332"

target="\_blank">11114332</a>). Confers resistance to anticancer drugs by

decreasing accumulation of drug in cells, and by mediating ATP- and GSH-dependent drug export (PubMed:<a href="http://www.

uniprot.org/citations/9281595"

target=" blank">9281595</a>).

Hydrolyzes ATP with low efficiency

(PubMed:<a href="http://www.uniprot.org/c itations/16230346"

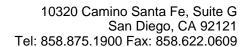
target="\_blank">16230346</a>).

Catalyzes the export of sphingosine

1-phosphate from mast cells independently of their degranulation (PubMed:<a href="http://www.uniprot.org/citations/17050692"

target="\_blank">17050692</a>).

Participates in inflammatory response by allowing export of leukotriene C4 from leukotriene C4-synthezing cells (By similarity).





**Cellular Location** 

Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441, ECO:0000269|PubMed:16230346}

**Tissue Location**Lung, testis and peripheral blood mononuclear cells

## ABCC1 Antibody (C-term) Blocking Peptide - Protocols

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

• Blocking Peptides