

**ABCC10 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10143c****Specification**

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**ABCC10 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P, FC,E</b>
Primary Accession	<a href="#">O5T3U5</a>
Other Accession	<a href="#">NP_258261.2</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>161629</b>
Antigen Region	<b>767-793</b>

**ABCC10 Antibody (Center) - Additional Information****Gene ID** 89845**Other Names**

Multidrug resistance-associated protein 7, ATP-binding cassette sub-family C member 10, ABCC10, MRP7, SIMRP7

**Target/Specificity**

This ABCC10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 767-793 amino acids from the Central region of human ABCC10.

**Dilution**WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ABCC10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**ABCC10 Antibody (Center) - Protein Information****Name** ABCC10

## Synonyms MRP7, SIMRP7

**Function** ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds, and xenobiotics from cells. Lipophilic anion transporter that mediates ATP-dependent transport of glucuronide conjugates such as estradiol-17-beta-o-glucuronide and GSH conjugates such as leukotriene C4 (LTC4) (PubMed:[12527806](#), PubMed:[15256465](#)). May contribute to regulate the transport of organic compounds in testes across the blood-testis- barrier (Probable). Mediates multidrug resistance (MDR) in cancer cells by preventing the intracellular accumulation of certain antitumor drugs, such as, docetaxel and paclitaxel (PubMed:[15256465](#), PubMed:[23087055](#)). Does not transport glycocholic acid, taurocholic acid, MTX, folic acid, cAMP, or cGMP (PubMed:[12527806](#)).

## Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441, ECO:0000269|PubMed:12566991, ECO:0000269|PubMed:15256465}. Basolateral cell membrane; Multi-pass membrane protein. Basal cell membrane; Multi-pass membrane protein. Note=Localized to the basal membrane of Sertoli cells.

## Tissue Location

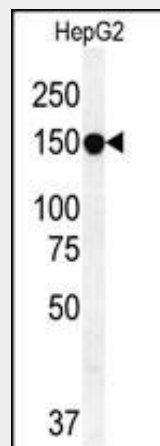
In testis, localized to peritubular myoid cells, Leydig cells, along the basal membrane of Sertoli cells, moderately in the adluminal compartment of the seminiferous tubules, and in vascular endothelial cells. [Isoform 2]: Widely expressed.

## ABCC10 Antibody (Center) - Protocols

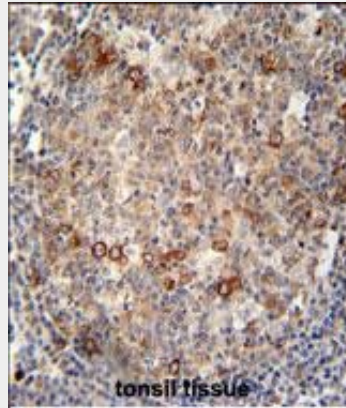
Provided below are standard protocols that you may find useful for product applications.

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

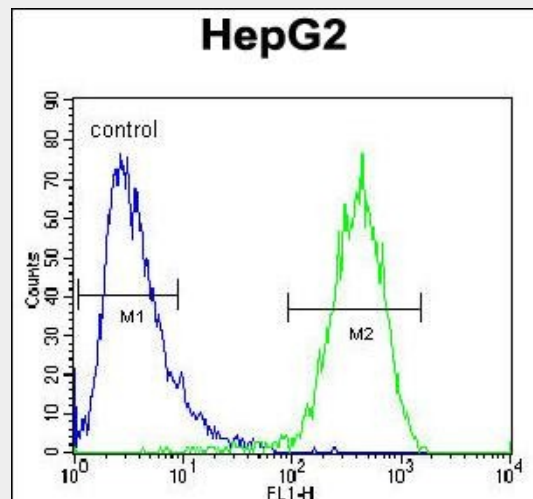
## ABCC10 Antibody (Center) - Images



ABCC10 Antibody (Center) (Cat. #AP10143c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the ABCC10 antibody detected the ABCC10 protein (arrow).



ABCC10 antibody (Center) (Cat. #AP10143c) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ABCC10 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



ABCC10 Antibody (Center) (Cat. #AP10143c) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **ABCC10 Antibody (Center) - 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, and White). This ABC full-transporter is a member of the MRP subfamily which is involved in multi-drug resistance. Multiple transcript variants encoding different isoforms have been found for this gene.

### **ABCC10 Antibody (Center) - References**

- Kuang, Y.H., et al. *Biochem. Pharmacol.* 79(2):154-161(2010)
- Saito, A., et al. *J. Hum. Genet.* 54(6):317-323(2009)
- Zhou, Y., et al. *Biochem. Pharmacol.* 77(6):993-1001(2009)
- Hopper-Borge, E., et al. *Cancer Res.* 69(1):178-184(2009)
- Shen, T., et al. *PLoS ONE* 4 (10), E7520 (2009) :