

For Research Use Only

# ABCC5 Polyclonal antibody

Catalog Number: 19503-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 19503-1-AP	<b>GenBank Accession Number:</b> NML_005688	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 460 µg/ml	<b>GeneID (NCBI):</b> 10057	<b>Recommended Dilutions:</b> IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O15440	
<b>Isotype:</b> IgG	<b>Full Name:</b> ATP-binding cassette, sub-family C (CFTR/MRP), member 5	
	<b>Calculated MW:</b> 161 kDa	

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human ovary tumor tissue, human pancreas cancer tissue
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ABCC5, also named as MOAT-C, pABC11, SMRP, and MRP5, belongs to the ABC transporter superfamily, ABCC family, and Conjugate transporter (TC 3.A.1.208) subfamily. ABCC5 acts as a multispecific organic anion pump that can transport nucleotide analogs. ABCC5 functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that ABCC5 provides resistance to thiopurine anticancer drugs, 6-mercaptopurine and thioguanine, and the anti-HIV drug 9-(2-phosphonylmethoxyethyl) adenine. ABCC5 may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Since it is glycosylated, the apparent molecular weight of ABCC5 could be variable, ranging from 161 kDa to 200 kDa (PMID: 10893247; PMID: 15897250; PMID: 31338999).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hao Wang	31289473	Oncol Lett	WB
Xin Zhou	35342392	Front Genet	IHC
Ting Chen	36033523	Front Oncol	IHC

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

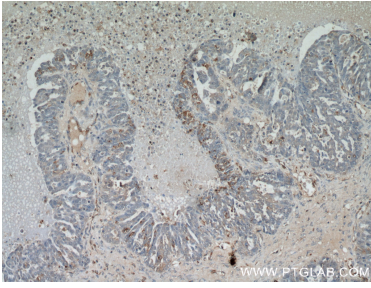
T: 4006900926

E: Proteintech-CN@ptglab.com

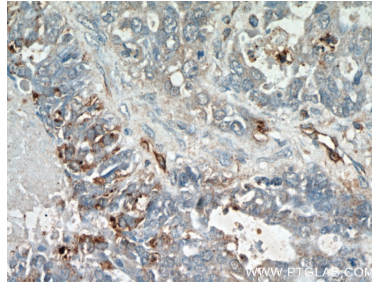
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 19503-1-AP (ABCC5 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 19503-1-AP (ABCC5 antibody) at dilution of 1:50 (under 40x lens).