

For Research Use Only

ABCC5 Polyclonal antibody

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



Basic Information

Catalog Number: 19503-1-AP	GenBank Accession Number: NM_005688	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 460 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10057	Recommended Dilutions: IHC 1:20-1:200
Source: Rabbit	Full Name: ATP-binding cassette, sub-family C (CFTR/MRP), member 5	
Isotype: IgG	Calculated MW: 161 kDa	

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : human ovary tumor tissue, human pancreas cancer tissue
Cited Applications: IHC, WB	
Species Specificity: human	
Cited Species: 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-phosphonyl-methoxyethyl) 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

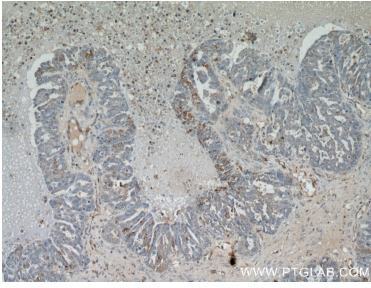
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

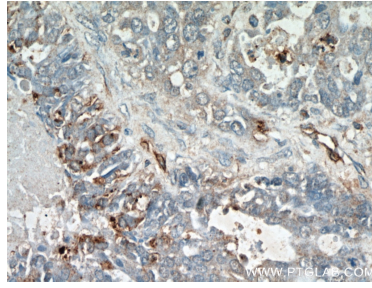
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Selected Validation Data



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).