For Research Use Only

ABCC5 Monoclonal antibody

Catalog Number:67955-1-Ig

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Basic Information

Catalog Number:
67955-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG31674

GenBank Accession Number:
NM_005688

GeneID (NCBI):
10057

UNIPROT ID:
O15440

Full Name:
ATP-binding cassette, sub-family C (CFTR/MRP), member 5

Calculated MW:
161 kDa

Observed MW:
180-200kDa

Purification Method:
Protein G purification

CloneNo.:
2H10F11

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, Rat

Positive Controls:

WB : HepG2 cells, U2OS cells, HEK-293 cells, HeLa cells, K-562 cells, HSC-T6 cells

Background Information

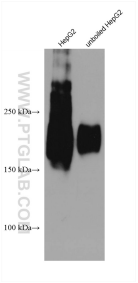
ABCC5, also named as MOAT-C, pABC11, SMRP, and MRP5, belongs to the ABC transporter superfamily, ABCC family, and Conjugate transporter (TC 3.A.1.208) subfamily. ABCC5 acts as a multispecific organic anion pump that can transport nucleotide analogs. ABCC5 functions in the cellular export of its substrate, 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-mercatopurine 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).

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 W: ptgcn.com

Selected Validation Data



Boiled and unboiled HepG2 lysates were subjected to SDS PAGE followed by western blot with 67955-1-Ig (ABCC5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.