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Anti-MRP5 Antibody

Catalog # AP54120

Product Information

Application	WB
Primary Accession	O15440
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	160660

Additional Information

Gene ID	10057
Other Names	MRP5; Multidrug resistance-associated protein 5; ATP-binding cassette sub-family C member 5; Multi-specific organic anion transporter C; MOAT-C; SMRP; pABC11
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MRP5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	ABCC5
Synonyms	MRP5
Function	ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds, and xenobiotics from cells. Mediates ATP-dependent transport of endogenous metabolites such as cAMP and cGMP, folic acid and N-lactoyl-amino acids (in vitro) (PubMed:10893247, PubMed:12637526, PubMed:12695538, PubMed:15899835, PubMed:17229149, PubMed:25964343). Also acts as a general glutamate conjugate and analog transporter that can limit the brain levels of endogenous metabolites, drugs, and toxins (PubMed:26515061). Confers resistance to the antiviral agent PMEA (PubMed:12695538). Able to transport several anticancer drugs including methotrexate, and nucleotide analogs in vitro, however it does with low affinity, thus the exact role of ABCC5 in mediating resistance still needs to be elucidated (PubMed:10840050,

PubMed:12435799, PubMed:12695538, PubMed:15899835). Acts as a heme transporter required for the translocation of cytosolic heme to the secretory pathway (PubMed:24836561). May play a role in energy metabolism by regulating the glucagon-like peptide 1 (GLP-1) secretion from enteroendocrine cells (By similarity).

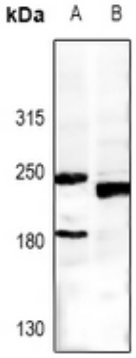
Cellular Location

Basolateral cell membrane; Multi-pass membrane protein. Golgi apparatus lumen Endosome membrane. Cytoplasmic granule {ECO:0000250|UniProtKB:Q9R1X5}. Apical cell membrane; Multi-pass membrane protein. Note=In most cells, routes to the basolateral plasma membrane, but in the brain capillary endothelial cells that form the blood-brain barrier, resides in the apical membrane

Tissue Location

[Isoform 3]: Predominant isoform in retinal pigment epithelium, bladder, and stomach.

Images



Western blot analysis of MRP5 expression in Myla2059 (A), CT26 (B) whole cell lysates. (Predicted band size: 160 kD; Observed band size: 180; 250 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.