

KD-Validated Anti-ABCC1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1330

Product Information

Application	WB, FC
Primary Accession	P33527
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB2970
Calculated MW	171591
Gene Name	ABCC1
Aliases	ABCC1; ATP Binding Cassette Subfamily C Member 1 (ABCC1 Blood Group); GS-X; MRP1; MRP; ATP-Binding Cassette, Sub-Family C (CFTR/MRP), Member 1; Glutathione-S-Conjugate-Translocating ATPase ABCC1; ATP Binding Cassette Subfamily C Member 1; Multidrug Resistance-Associated Protein 1; Glutathione S-Conjugate Export Pump; Leukotriene C(4) Transporter; LTC4 Transporter; ATP-Binding Cassette Transporter Variant ABCC1delta-Ex13&14; ATP-Binding Cassette Transporter Variant ABCC1delta-Ex25&26; ATP-Binding Cassette Transporter Variant ABCC1delta-Ex13; ATP-Binding Cassette Transporter Variant ABCC1delta-Ex25; ATP-Binding Cassette Sub-Family C Member 1; Multidrug Resistance Associated Protein 1; EC 3.6.3.44; EC 7.6.2.2; EC 7.6.2.3; EC 3.6.3; DFNA77; ABC29; ABCC
Immunogen	A synthesized peptide derived from human MRP1

Additional Information

Gene ID	4363
Other Names	Multidrug resistance-associated protein 1, 7.6.2.2, ATP-binding cassette sub-family C member 1, Glutathione-S-conjugate-translocating ATPase ABCC1, Leukotriene C(4) transporter, LTC4 transporter, ABCC1 (HGNC:51), MRP, MRP1

Protein Information

Name	ABCC1 (HGNC:51)
Synonyms	MRP, MRP1
Function	Mediates export of organic anions and drugs from the cytoplasm (PubMed: 10064732 , PubMed: 11114332 , PubMed: 16230346 , PubMed: 7961706 , PubMed: 9281595). Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, antiviral drugs and other xenobiotics (PubMed: 10064732 , PubMed: 11114332 , PubMed: 16230346 , PubMed: 7961706 , PubMed: 9281595). Confers resistance to anticancer drugs

by decreasing accumulation of drug in cells, and by mediating ATP- and GSH-dependent drug export (PubMed:[9281595](#)). Hydrolyzes ATP with low efficiency (PubMed:[16230346](#)). Catalyzes the export of sphingosine 1-phosphate from mast cells independently of their degranulation (PubMed:[17050692](#)). Participates in inflammatory response by allowing export of leukotriene C4 from leukotriene C4-synthesizing cells (By similarity). Mediates ATP-dependent, GSH-independent cyclic GMP-AMP (cGAMP) export (PubMed:[36070769](#)). Thus, by limiting intracellular cGAMP concentrations negatively regulates the cGAS-STING pathway (PubMed:[36070769](#)). Exports S-geranylgeranyl-glutathione (GGG) in lymphoid cells and stromal compartments of lymphoid organs. ABCC1 (via extracellular transport) with GGT5 (via GGG catabolism) establish GGG gradients within lymphoid tissues to position P2RY8-positive lymphocytes at germinal centers in lymphoid follicles and restrict their chemotactic transmigration from blood vessels to the bone marrow parenchyma (By similarity). Mediates basolateral export of GSH-conjugated R- and S-prostaglandin A2 diastereomers in polarized epithelial cells (PubMed:[9426231](#)).

Cellular Location	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Lung, testis and peripheral blood mononuclear cells

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