

KD-Validated Anti-ABCC1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1330**Specification****KD-Validated Anti-ABCC1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P33527
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 172 kDa; observed, 171 kDa
Gene Name	KDa
Aliases	ABCC1
	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

KD-Validated Anti-ABCC1 Rabbit Monoclonal Antibody - 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	

KD-Validated Anti-ABCC1 Rabbit Monoclonal Antibody - 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

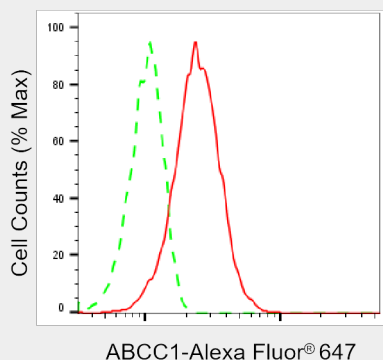
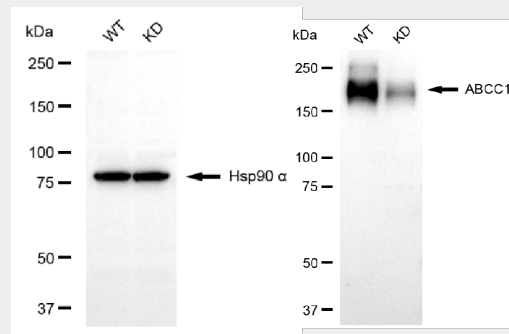
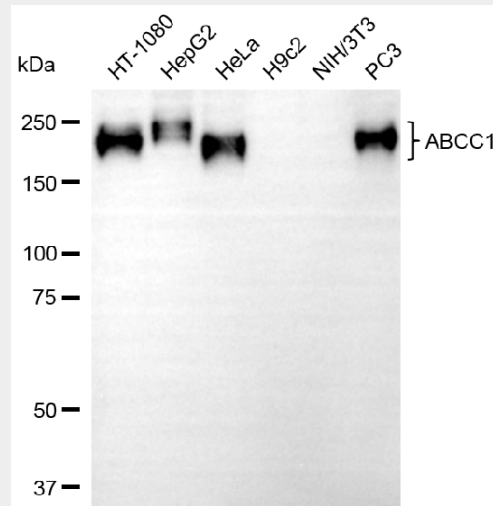
KD-Validated Anti-ABCC1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-ABCC1 Rabbit Monoclonal Antibody - Images



Flow cytometric analysis of ABCC1 expression in HeLa cells using anti-ABCC1 antibody (Cat#AGI1330, 1:2,000). Green, isotype control; red, ABCC1.