

Anti-MRP1 ABCC1 Rabbit Monoclonal Antibody

Catalog # ABO13561

Product Information

Application	WB, FC
Primary Accession	P33527
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-MRP1 ABCC1 Rabbit Monoclonal Antibody . Tested in WB, Flow Cytometry applications. This antibody reacts with Human.

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
Calculated MW	171591
Application Details	WB 1:500-1:2000 FC 1:20
Subcellular Localization	Cell membrane ; Multi-pass membrane protein.
Tissue Specificity	Lung, testis and peripheral blood mononuclear cells.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: ABFD-1
Immunogen	A synthesized peptide derived from human MRP1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	ABCC1 (HGNC:51)
-------------	-----------------------------------

Synonyms

MRP, MRP1

Function

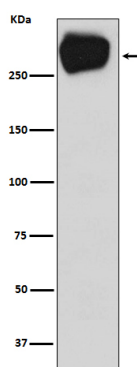
Mediates export of organic anions and drugs from the cytoplasm (PubMed:[10064732](#), PubMed:[11114332](#), PubMed:[16230346](#), PubMed:[7961706](#), PubMed:[9281595](#)). Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, 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

Images

Western blot analysis of MRP1 expression in A431 cell lysate.

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