

# MRP1 Antibody

Rabbit mAb

Catalog # AP91308

## Product Information

<b>Application</b>	WB, FC
<b>Primary Accession</b>	<a href="#">P33527</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	ABC29; Abcc1; GSX; Leukotriene C(4) transporter; LTC4 transporter; MRP1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	171591

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 FC 1:20
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human MRP1
<b>Description</b>	Mediates export of organic anions and drugs from the cytoplasm. Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, antiviral drugs and other xenobiotics. Confers resistance to anticancer drugs. Hydrolyzes ATP with low efficiency.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	ABCC1 ( <a href="#">HGNC:51</a> )
<b>Synonyms</b>	MRP, MRP1
<b>Function</b>	Mediates export of organic anions and drugs from the cytoplasm (PubMed: <a href="#">10064732</a> , PubMed: <a href="#">11114332</a> , PubMed: <a href="#">16230346</a> , PubMed: <a href="#">7961706</a> , PubMed: <a href="#">9281595</a> ). Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, antiviral drugs and other xenobiotics (PubMed: <a href="#">10064732</a> , PubMed: <a href="#">11114332</a> , PubMed: <a href="#">16230346</a> , PubMed: <a href="#">7961706</a> , PubMed: <a href="#">9281595</a> ). Confers resistance to anticancer drugs by decreasing accumulation of drug in cells, and by mediating ATP- and GSH-dependent drug export (PubMed: <a href="#">9281595</a> ). Hydrolyzes ATP with low efficiency (PubMed: <a href="#">16230346</a> ). Catalyzes the export of sphingosine 1-phosphate from mast cells independently of their degranulation (PubMed: <a href="#">17050692</a> ). 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**

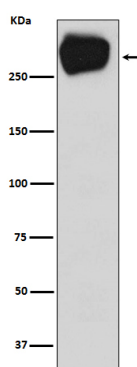
Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein

**Tissue Location**

Lung, testis and peripheral blood mononuclear cells

## Images

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Western blot analysis of MRP1 expression in A431 cell lysate.

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