10320 Camino Santa Fe, Suite G
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Anti-MRP1 / ABCC1 Antibody
Mouse Monoclonal Antibody
Catalog # AH13401

Specification

Anti-MRP1 / ABCC1 Antibody - Product Information

Application	**,1,14,3,4,**
Primary Accession	P33527
Other Accession	391464
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1**
Calculated MW	**171591**

Anti-MRP1 / ABCC1 Antibody - Additional Information

Gene ID 4363

Other Names
ABC29; ABCC1; ATP binding cassette sub family C (CFTR/MRP) member 1; ATP-binding cassette sub-family C member 1; GSX; Leukotriene C(4) transporter; LTC4 transporter; Multidrug resistance-associated protein 1 (MRP1)

Format
200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
Anti-MRP1 / ABCC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-MRP1 / ABCC1 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-synthezing 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).

Cellular Location
Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441, ECO:0000269|PubMed:16230346}

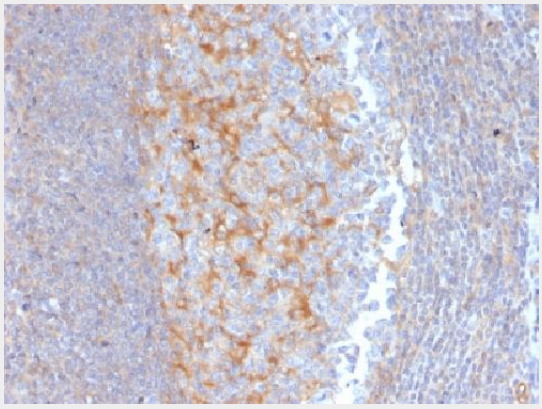
Tissue Location
Lung, testis and peripheral blood mononuclear cells

Anti-MRP1 / ABCC1 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 Cytomety
- Cell Culture

Anti-MRP1 / ABCC1 Antibody - Images



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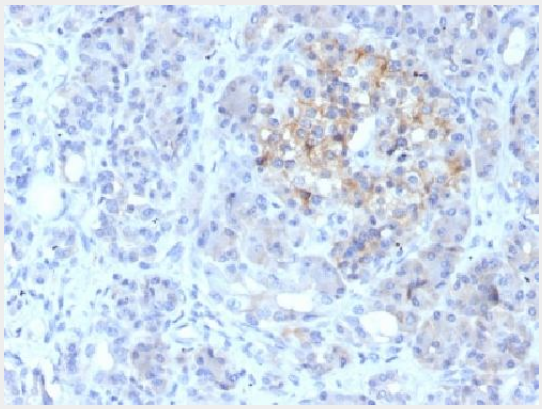
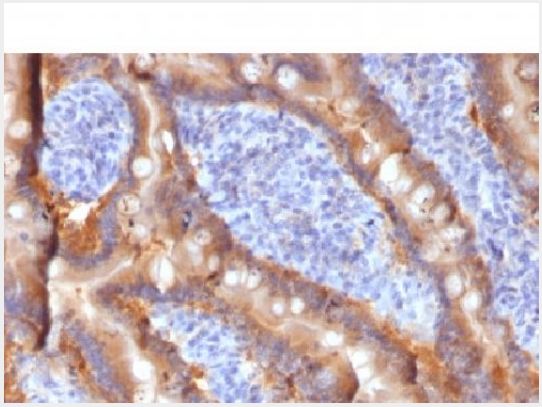
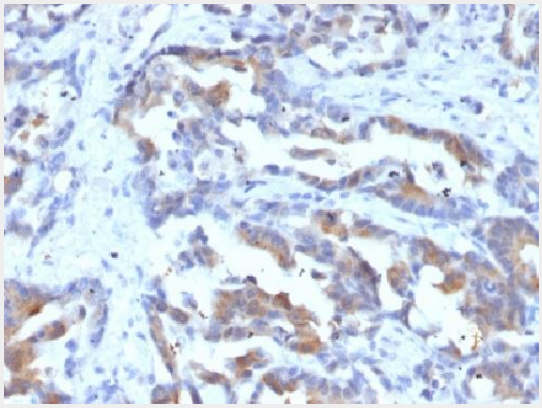
Formalin-fixed, paraffin-embedded Human Tonsil stained with MRP1/ABCC1 Monoclonal Antibody (MRP1/1343).



Formalin-fixed, paraffin-embedded Human Pancreas stained with MRP1/ABCC1 Monoclonal Antibody (MRP1/1343).



Formalin-fixed, paraffin-embedded Human Duodenum stained with MRP1/ABCC1 Monoclonal Antibody (MRP1/1343).



Formalin-fixed, paraffin-embedded Human Rectal Carcinoma stained with MRP1/ABCC1 Monoclonal Antibody (MRP1/1343).

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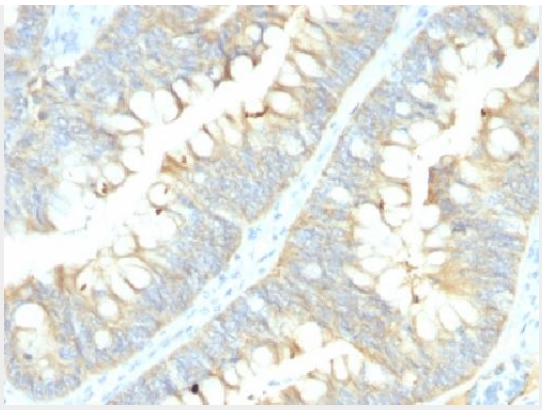

Formalin-fixed, paraffin-embedded Human Colon Carcinoma stained with MRP1/ABCC1 Monoclonal Antibody (MRP1/1343).

Anti-MRP1 / ABCC1 Antibody - Background

The two members of the large family of ABC transporters known to confer multidrug resistance in human cancer cells are the MDR1 P-glycoprotein and the multidrug-resistance protein MRP1. MRP1 is an integral membrane protein that contains an MDR-like core, an N-terminal membrane-bound region and a cytoplasmic linker, and it is expressed in various cerebral cells, as well as in lung, testis and peripheral blood.