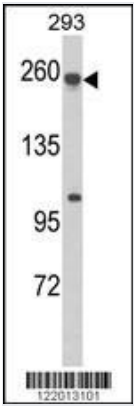
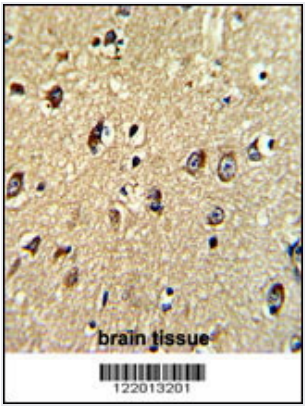
MRP5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

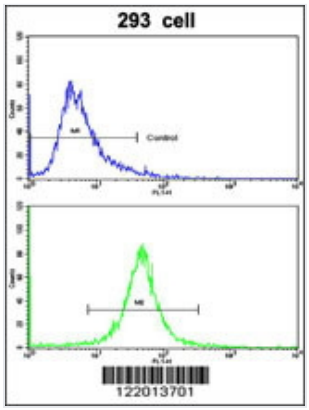
Product Name	MRP5, Polyclonal Antibody
Full Product Name	MRP5, ID (Multidrug Resistance-associated Protein 5, ATP-binding Cassette Sub-family C Member 5, Multi-specific Organic Anion Transporter C, MOAT-C, pABC11, SMRP, ABCC5) (FITC)
Product Gene Name	anti-MRP5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human ABCC5.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	155,732 Da
OMIM	605251
3D Structure	ModBase 3D Structure for O15440
Immunogen	Synthetic peptide selected from the center region of human ABCC5 (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MRP5 antibody	Antibodies; Multi Drug Resistance (MDR)
Applications Tested/Suitable for anti-MRP5 antibody	Western Blot (WB), FLISA
Application Notes for anti-MRP5 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MRP5 antibody	MBS6488602 is an antibody targeting MRP5. Also known as MRP5, ID (Multidrug Resistance-associated Protein 5, ATP-binding Cassette Sub-family C Member 5, Multi-specific Organic Anion Transporter C, MOAT-C, pABC11, SMRP, ABCC5) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MRP5 antibody	1. Olsen, J.V., et.al., Cell 127(3), 635-648 (2006).
Other Notes	Small volumes of anti-MRP5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MRP5 antibody
Western blot analysis of ABCC5 Antibody (Center) in 293 cell line lysates (35ug/lane). ABCC5 (arrow) was detected using the purified Pab.(2ug/ml)



Immunohistochemistry (IHC) of anti-MRP5 antibody
Formalin-fixed and paraffin-embedded human brain tissue with ABCC5 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-MRP5 antibody
Flow cytometric analysis of 293 cells using ABCC5 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRP5. It may not necessarily be applicable to this product.

NCBI GI #	66529005
NCBI GeneID	10057
NCBI Accession #	NP_005679.2
UniProt Primary Accession #	O15440
UniProt Secondary Accession #	O14517; Q29ZA9; Q29ZB1; Q86UX3; Q86W30; Q9UN85; Q9UNP5; Q9UQC3; B9EIQ2
UniProt Related Accession #	O15440
GenBank Nucleotide #	NM_005688.2
NCBI Official Full Name	multidrug resistance-associated protein 5 isoform 1
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family C (CFTR/MRP), member 5
NCBI Official Symbol	ABCC5
NCBI Official Synonym Symbols	MRP5; SMRP; ABC33; MOATC; MOAT-C; pABC11; EST277145
UniProt Protein Name	Multidrug resistance-associated protein 5
UniProt Synonym Protein Names	ATP-binding cassette sub-family C member 5; Multi-specific organic anion transporter C; MOAT-C; SMRP; pABC11

Protein Family	Probable 37S ribosomal protein
UniProt Gene Name	ABCC5
UniProt Synonym Gene Names	MRP5; MOAT-C
UniProt Entry Name	MRP5_HUMAN
NCBI Protein Information	multidrug resistance-associated protein 5; ATP-binding cassette sub-family C member 5; multi-specific organic anion transporter C; canalicular multispecific organic anion transporter C
NCBI Summary for MRP5	The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that this protein provides resistance to thiopurine anticancer drugs, 6-mercatopurine and thioguanine, and the anti-HIV drug 9-(2-phosphonylmethoxyethyl)adenine. This protein may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Alternative splicing of this gene has been detected; however, the complete sequence and translation initiation site is unclear. [provided by RefSeq, Jul 2008]
UniProt Comments for MRP5	ABCC5: Acts as a multispecific organic anion pump which can transport nucleotide analogs. Belongs to the ABC transporter superfamily. ABCC family. Conjugate transporter (TC 3.A.1.208) subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Transporter; Transporter, ABC family Chromosomal Location of Human Ortholog: 3q27 Cellular Component: membrane; integral to plasma membrane; plasma membrane Molecular Function: ATPase activity, coupled to transmembrane movement of substances; organic anion transmembrane transporter activity; ATP binding Biological Process: glycosaminoglycan metabolic process; transport; hyaluronan biosynthetic process; carbohydrate metabolic process; pathogenesis; transmembrane transport; hyaluronan metabolic process; organic anion transport
Research Articles on MRP5	**1.** This locus was associated with an increase in risk of PACG in a separate case-control study of 4,276 primary angle closure glaucoma cases and 18,801 controls (per-allele OR = 1.13 [95% CI: 1.06-1.22], P = 0.00046).
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