MRP5 Polyclonal Antibody

Catalog No	BYab-21976
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	ABCC5 MRP5
Protein Name	Multidrug resistance-associated protein 5 (ATP-binding cassette sub-family C member 5) (Multi-specific organic anion transporter C) (MOAT-C) (SMRP) (pABC11)
Immunogen	Synthesized peptide derived from human protein . at AA range: 470-550
Specificity	MRP5 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	158kD
Cell Pathway	Basolateral cell membrane ; Multi-pass membrane protein . Golgi apparatus lumen . Endosome membrane . Cytoplasmic granule . Apical cell membrane ; Multi-pass membrane protein . In most cells, routes to the basolateral plasma membrane, but in the brain capillary endothelial cells that form the blood-brain barrier, resides in the apical membrane. .
Tissue Specificity	[Isoform 3]: Predominant isoform in retinal pigment epithelium, bladder, and stomach. ; Ubiquitously expressed, but levels in brain and muscle are especially high (PubMed:9827529, PubMed:10438534, PubMed:15501592). All isoforms are equally expressed in retina (PubMed:17521428).
Function	function:Acts as a multispecific organic anion pump which can transport nucleotide analogs.,similarity:Belongs to the ABC transporter family.,similarity:Belongs to the ABC transporter family. Conjugate transporter (TC 3.A.1.208) subfamily.,similarity:Contains 2 ABC transmembrane type-1 domains.,similarity:Contains 2 ABC transporter domains.,

Background	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
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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