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MRP7 Rabbit pAb

Catalog # AP96730

Product Information

Application	WB, E
Primary Accession	Q5T3U5
Other Accession	Q5T3U5
Predicted	Rat, Pig, Human, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	161629
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MRP7/ABCC10.
Epitope Specificity	1401-1492/1492
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ABC transporter superfamily. ABCC family. Conjugate transporter (TC 3.A.1.208) subfamily.Contains 2 ABC transmembrane type-1 domains.Contains 2 ABC transporter domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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, and White). This ABC full-transporter is a member of the MRP subfamily which is involved in multi ATP-dependent transporter probably involved in cellular detoxification through lipophilic anion extrusion.

Additional Information

Gene ID	89845
Other Names	EST182763; MRP7; SIMRP7; MRP7_HUMAN; ABCC10; Multidrug resistance-associated protein 7; 7.6.2.2; 7.6.2.3; ATP binding cassette subfamily C member 10; ATP-binding cassette, sub-family C (CFTR/MRP), member 10
Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ABCC10 {ECO:0000303|PubMed:12527806}
Function	ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds, and xenobiotics from cells. Lipophilic anion transporter that mediates ATP-dependent transport of glucuronide conjugates such as estradiol-17-beta-o- glucuronide and GSH conjugates such as leukotriene C4 (LTC4) (PubMed:12527806, PubMed:15256465). May regulate the transport of organic compounds in testes across the blood-testis-barrier (Probable). Mediates intercellular propagation of antiviral immune signaling in early stages of infection (By similarity). In RNA virus-infected cells, oligoadenylate synthase senses viral dsRNA and generates 2',5'- oligoadenylates (2-5A) which act as second messengers to activate RNASEL and type I interferon signaling to inhibit viral replication (By similarity). This innate signaling pathway is locally extended and amplified by ABCC10, which exports 2-5A from virus-infected cells to cross-activates RNASEL in uninfected neighboring cells and confers protection against viral infection (By similarity). Mediates multidrug resistance (MDR) in cancer cells by preventing the intracellular accumulation of certain antitumor drugs, such as, docetaxel and paclitaxel (PubMed:15256465, PubMed:23087055). Does not transport glycocholic acid, taurocholic acid, MTX, folic acid, cAMP, or cGMP (PubMed:12527806).
Cellular Location	Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441, ECO:0000269|PubMed:12566991, ECO:0000269|PubMed:15256465}. Basolateral cell membrane; Multi-pass membrane protein. Basal cell membrane; Multi-pass membrane protein. Note=Localized to the basal membrane of Sertoli cells.
Tissue Location	In testis, localized to peritubular myoid cells, Leydig cells, along the basal membrane of Sertoli cells, moderately in the adluminal compartment of the seminiferous tubules, and in vascular endothelial cells. [Isoform 2]: Widely expressed.

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