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MRP7 Polyclonal Antibody

Catalog # AP71025

Product Information

Application	WB, IHC-P
Primary Accession	Q5T3U5
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	161629

Additional Information

Gene ID	89845
Other Names	ABCC10; MRP7; SIMRP7; Multidrug resistance-associated protein 7; ATP-binding cassette sub-family C member 10
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

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.

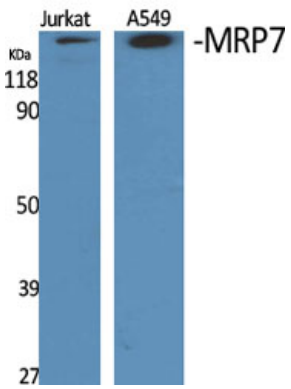
Tissue Location

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.

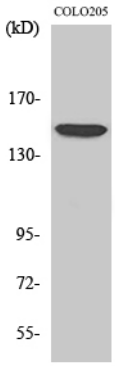
Background

ATP-dependent transporter probably involved in cellular detoxification through lipophilic anion extrusion.

Images



Western Blot analysis of various cells using MRP7 Polyclonal Antibody diluted at 1：1000



Western Blot analysis of COS7 cells using MRP7 Polyclonal Antibody diluted at 1：1000

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