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Product datasheet for TA809814AM

P Glycoprotein (ABCB1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI9C10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9C10
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 995-1280 of human ABCB1 (NP_000918) produced in SF9 cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ATP binding cassette subfamily B member 1
Database Link:	NP_000918 Entrez Gene 170913 RatEntrez Gene 5243 Human P08183

View online »

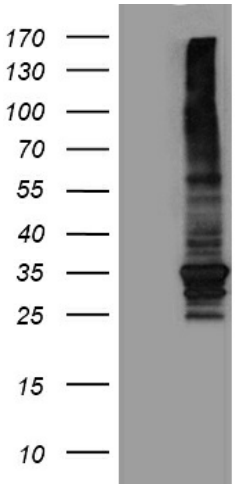
Background: The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. [provided by RefSeq, Jul 2008]

Synonyms: ABC20; CD243; CLCS; GP170; MDR1; p-170; P-GP; PGY1

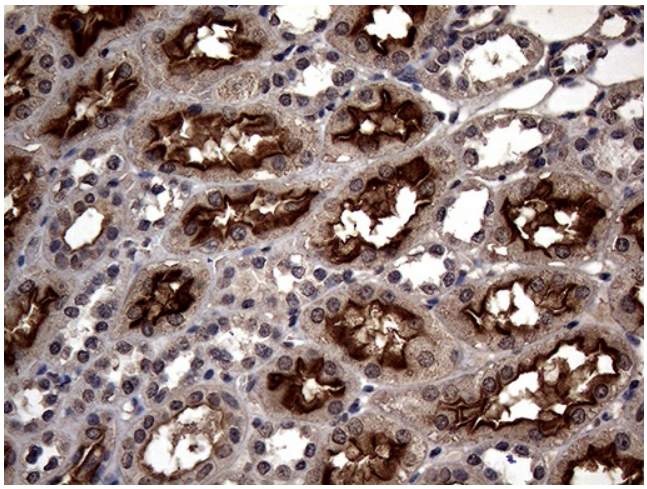
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: ABC transporters

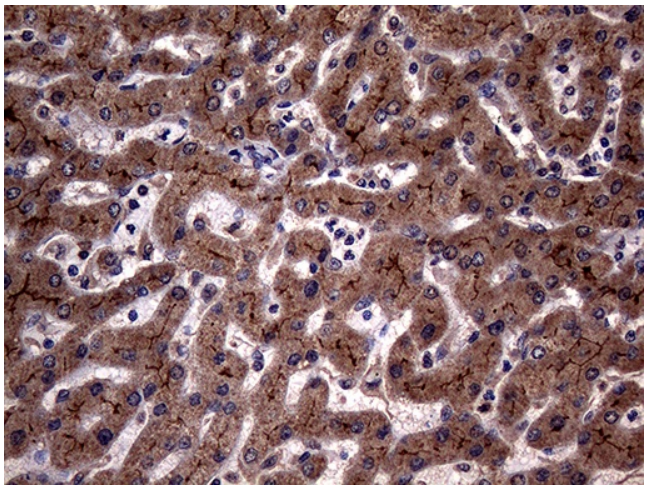
Product images:



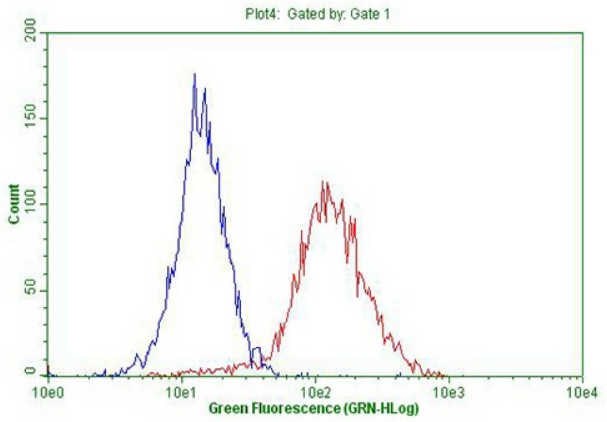
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ABCB1 ([RC216080], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ABCB1 (1:2000).



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-ABCB1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809814]) (1:2000)



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-ABCB1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809814]) (1:2000)



Flow cytometric Analysis of permeabilized Hek293T cells, using anti-ABCB1 antibody ([TA809814]), (Red), compared to negative control (PBS), (Blue). (1:100).