ABCC10 monoclonal antibody, clone M7I-3

Catalog # MAB6672 Size

Specification

Product Description	Rat monoclonal antibody raised against partial recombinant ABCC10.
Immunogen	Recombinant protein corresponding to amino acids 194-272 of human ABCC10.
Host	Rat
Reactivity	Human
Specificity	M7I-3 reacts with an internal epitope of MRP7 (ABCC10), an approximately 160 kD transmembrane protein that is related to the multidrug resistance protein MRP1.
Form	Liquid
Isotype	IgG
Recommend Usage	Immunohistochemistry (Frozen sections) (1:20) Immunocytochemistry (1:20-1:50) Wstern Blot (1:20-1:50) The optimal working dilution should be determined by the end user.
Storage Buffer	In serum-free culture supernatant (0.7% BSA, 0.09% sodium azide)
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry

Gene Info — ABCC10

Entrez GeneID	89845
Gene Name	ABCC10
Gene Alias	EST182763, MRP7, SIMRP7
Gene Description	ATP-binding cassette, sub-family C (CFTR/MRP), member 10
Gene Ontology	Hyperlink
Gene Summary	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-drug resistance. Alternative splicing of this gene results in multiple transcript variants; however, not all variants have been fully described. [provided by RefSeq
Other Designations	ATP-binding cassette, sub-family C, member 10|multidrug resistance-associated protein 7

Publication Reference

- Imatinib and nilotinib reverse multidrug resistance in cancer cells by inhibiting the efflux activity of the MRP7 (ABCC10).

  Shen T, Kuang YH, Ashby CR, Lei Y, Chen A, Zhou Y, Chen X, Tiwari AK, Hopper-Borge E, Ouyang J, Chen ZS.

  PLoS One 2009 Oct; 4(10):e7520.

- ABCC10/MRP7 is associated with vinorelbine resistance in non-small cell lung cancer.

  Bessho Y, Oguri T, Ozasa H, Uemura T, Sakamoto H, Miyazaki M, Maeno K, Sato S, Ueda R.

  Oncology Reports 2009 Jan; 21(1):263.

- Human multidrug resistance protein 7 (ABCC10) is a resistance factor for nucleoside analogues and epothilone B.

  Hopper-Borge E, Xu X, Shen T, Shi Z, Chen ZS, Kruh GD.

  Cancer Research 2009 Jan; 69(1):178.

Pathway

- ABC transporters