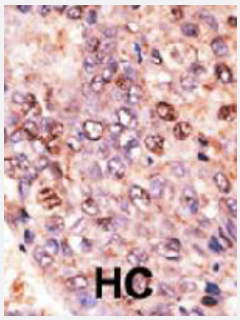
ABCB7 polyclonal antibody

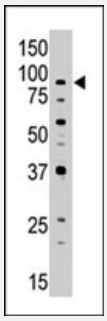
Catalog # PAB4700 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with ABCB7 polyclonal antibody (Cat # PAB4700) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. HC = hepatocarcinoma.



Western Blot (Cell lysate)

The ABCB7 polyclonal antibody (Cat # PAB4700) is used in Western blot to detect ABCB7 in Jurkat cell lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ABCB7.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human ABCB7.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

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Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  The ABCB7 polyclonal antibody (Cat # PAB4700) is used in Western blot to detect ABCB7 in Jurkat cell lysate.

Gene Info — ABCB7

Entrez GeneID	22
Protein Accession#	NP_004290
Gene Name	ABCB7
Gene Alias	ABC7, ASAT, Atm1p, EST140535
Gene Description	ATP-binding cassette, sub-family B (MDR/TAP), member 7
Omim ID	300135 301310
Gene Ontology	Hyperlink

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Gene Summary	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 as well as antigen presentation. This gene encodes a half-transporter involved in the transport of heme from the mitochondria to the cytosol. With iron/sulfur cluster precursors as its substrates, this protein may play a role in metal homeostasis. Mutations in this gene have been implicated in X-linked sideroblastic anemia with ataxia. [provided by RefSeq
Other Designations	ATP-binding cassette 7|ATP-binding cassette, sub-family B, member 7|OTTHUMP00000023578

Publication Reference

- Mutation of a putative mitochondrial iron transporter gene (ABC7) in X-linked sideroblastic anemia and ataxia (XLSA/A).

  Allikmets R, Raskind WH, Hutchinson A, Schueck ND, Dean M, Koeller DM.

  Human Molecular Genetics 1999 May; 8(5):743.

- Identification of a human mitochondrial ABC transporter, the functional orthologue of yeast Atm1p.

  Csere P, Lill R, Kispal G.

  FEBS Letters 1998 Dec; 441(2):266.

- Identification of genes expressed in human CD34(+) hematopoietic stem/progenitor cells by expressed sequence tags and efficient full-length cDNA cloning.

  Mao M, Fu G, Wu JS, Zhang QH, Zhou J, Kan LX, Huang QH, He KL, Gu BW, Han ZG, Shen Y, Gu J, Yu YP, Xu SH, Wang YX, Chen SJ, Chen Z.

  PNAS 1998 Jul; 95(14):8175.

Pathway

- ABC transporters

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