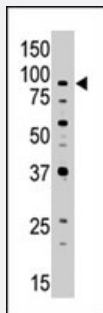


ABCB7 polyclonal antibody

Catalog # PAB4700

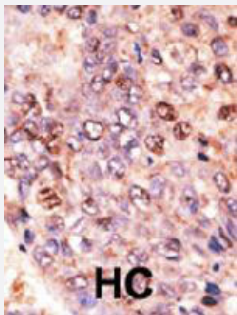
Size 400 uL

Applications



Western Blot (Cell lysate)

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



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.

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 |

| | |
|----------------------------|---|
| 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 should be handled by trained staff only. |

Applications

- Western Blot (Cell lysate)

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

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- Enzyme-linked Immunoabsorbent Assay

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 |

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](#)