



[Go to Product page](#)

Datasheet for ABIN1724923
anti-ABCB1 antibody (AA 632-693)

3 Images

2 Publications

Overview

Quantity:	0.1 mg
Target:	ABCB1
Binding Specificity:	AA 632-693
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ABCB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Purified recombinant fragment of human ABCB1 (AA: 632-693) expressed in E. coli.
Clone:	6G11C12
Isotype:	IgG1
Purification:	purified

Target Details

Target:	ABCB1
Alternative Name:	ABCB1 (ABCB1 Products)
Background:	Description: The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various

Target Details

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. ,
Aliases: CLCS, MDR1, P-GP, PGY1, ABC20, CD243, GP170

Molecular Weight:	141.5 kDa
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Gene ID:	5243
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HGNC:	5243
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Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	Purified antibody in PBS with 0.05 % sodium azide
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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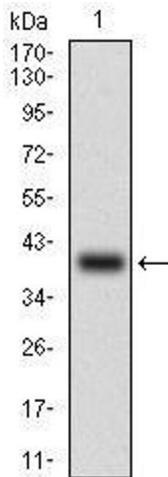
Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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Publications

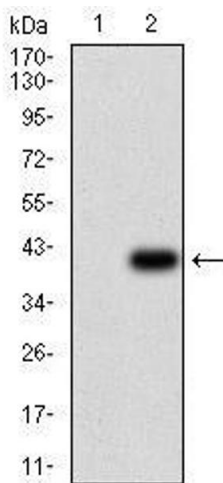
Product cited in:	Rubi?, Ho?ysz, Barczak, Gryczka, ?aci?ski, Jagielski, Czernikiewicz, Pó?rolniczak, Wojewoda, Perz, Bia?ek, Morze, Kandu?a, Lisiak, Mrozikiewicz, Grodecka-Gazdecka, Rybczy?ska: "Study of ABCB1 polymorphism frequency in breast cancer patients from Poland." in: Pharmacological reports : PR , Vol. 64, Issue 6, pp. 1560-6, (2013) (PubMed).
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Zhang, Wang, Cai, Jiang, Zhou, Yang, Chen, Chen, Dou: "Downregulation of gene MDR1 by shRNA to reverse multidrug-resistance of ovarian cancer A2780 cells." in: **Journal of cancer research and therapeutics**, Vol. 8, Issue 2, pp. 226-31, (2012) ([PubMed](#)).



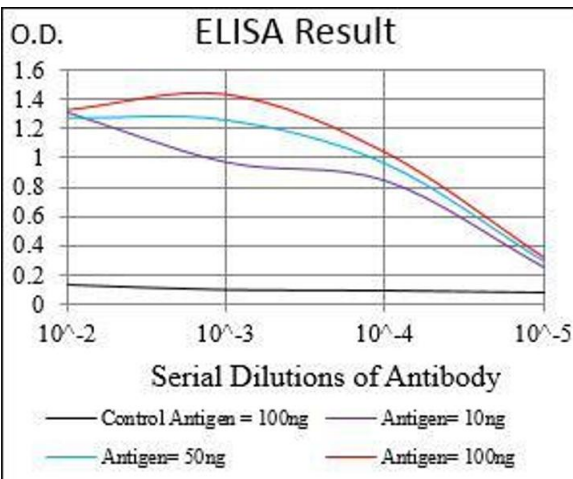
Western Blotting

Image 1. Western blot analysis using ABCB1 mAb against human ABCB1 (AA: 632-693) recombinant protein. (Expected MW is 32.4 kDa)



Western Blotting

Image 2. Western blot analysis using ABCB1 mAb against HEK293 (1) and ABCB1 (AA: 632-693)-hlgGfc transfected HEK293 (2) cell lysate.



ELISA

Image 3. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),