

**Product Name: ABCB5(11A2)Mouse Monoclonal Antibody**  
**Catalog #: AMM06404**

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## Summary

<b>Production Name</b>	ABCB5(11A2)Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC-P,IF-P,IF-F,ICC/IF
<b>Reactivity</b>	Human

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	PBS, pH 7.4, containing 0.5%BSA, 0.02% New type preservative N as Preservative and 50% Glycerol.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	ABCB5
<b>Alternative Names</b>	ABCB5; ATP-binding cassette sub-family B member 5; ABCB5 P-gp; P-glycoprotein ABCB5
<b>Gene ID</b>	340273.0
<b>SwissProt ID</b>	Q2M3G0.Synthetic Peptide of ABCB5

## Application

<b>Dilution Ratio</b>	WB 1:2000, IF-P/IF-F/ICC/IF 1:200, IHC-P 1:50-300
<b>Molecular Weight</b>	90kDa

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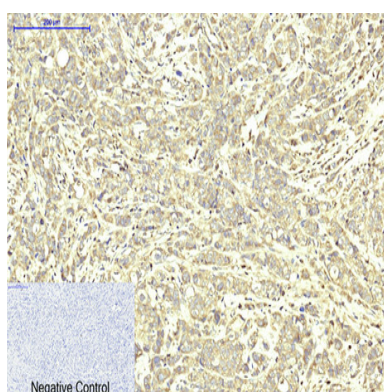
## Background

ABCB5 belongs to the ATP-binding cassette (ABC) transporter superfamily of integral membrane proteins. These proteins participate in ATP-dependent transmembrane transport of structurally diverse molecules ranging from small ions, sugars, and peptides to more complex organic molecules (Chen et al., 2005 [PubMed 15760339]).[supplied by OMIM, Mar 2008],caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,caution:Was named ABCB1 by some authors.,function:Plasma membrane transporter able to mediate efflux from cells of the rhodamine dye and of the therapeutic drug doxorubicin. Responsible for the resistance to doxorubicin of a subset of malignant melanomas.,miscellaneous:Depletion of ABCB5 by RNAi increases the sensitivity to several drugs of a subset of melanoma cells.,similarity:Belongs to the ABC transporter family.,similarity:Belongs to the ABC transporter family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.,similarity:Contains 1 ABC transmembrane type-1 domain.,similarity:Contains 1 RRM (RNA recognition motif) domain.,similarity:Contains 2 ABC transporter domains.,subunit:Component of the U11/U12 snRNPs that are part of the U12-type spliceosome.,tissue specificity:Expressed by CD133-expressing progenitor cells among epidermal melanocytes (at protein level). Widely expressed with specific expression in pigment cells. Also expressed in several malignant tissues.,tissue specificity:Expressed in heart, liver, skeletal muscle and pancreas.,

## Research Area

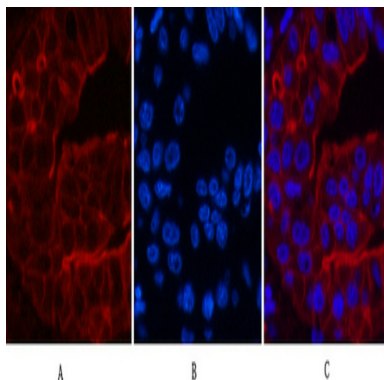
ABC transporters;

## Image Data

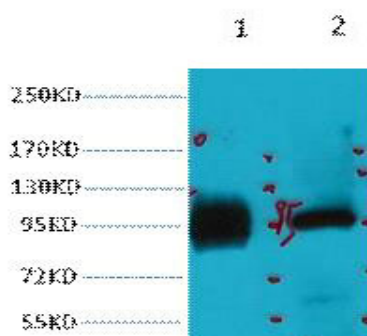


Immunohistochemical analysis of paraffin-embedded Human-breast-cancer tissue. 1,ABCB5 Monoclonal Antibody (11A2) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

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Immunofluorescence analysis of Human-liver-cancer tissue. 1,ABCB5 Monoclonal Antibody (11A2) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) HeLa, 2) 293T, diluted at 1:2000. cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .

## Note

For research use only.