

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

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC/IF
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS, pH 7.4, containing 0.5%protective protein, 0.02% New type preservative N as Preservative and 50% Glycerol.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1000-1:2000,IHC 1:50-1:300,ICC/IF 1:100-1:200
Molecular Weight	90kDa

Antigen Information

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

Background

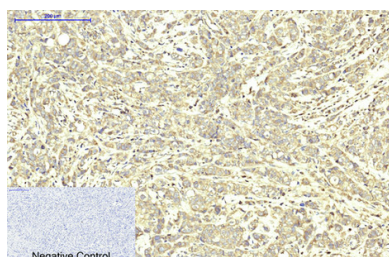
ABCB5 belongs to the ATP-binding cassette (ABC) transporter superfamily of integral membrane proteins. These proteins participate in ATP-dependent transmembrane transport of structurally diverse molecules ranging from small ions, sugars, and

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.,

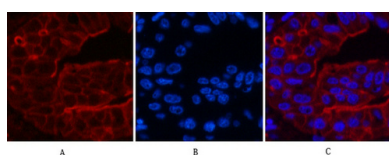
Research Area

ABC transporters;

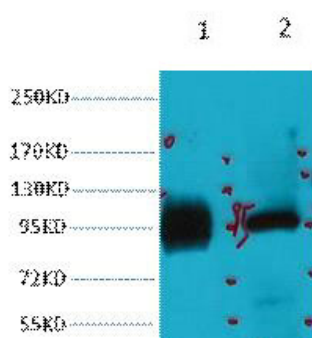
Image Data



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.



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) .