

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

Summary

Production Name	ABCB5(11A2)Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IHC,IF,WB
Reactivity	Human

Performance

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

Immunogen

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.Synthetic Peptide of ABCB5

Application

Dilution Ratio	WB 1:2000 IF 1:200 IHC 1:50-300
Molecular Weight	90kD

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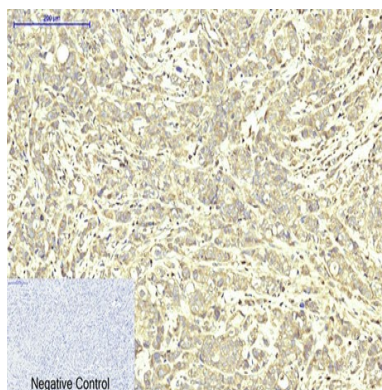
Background

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

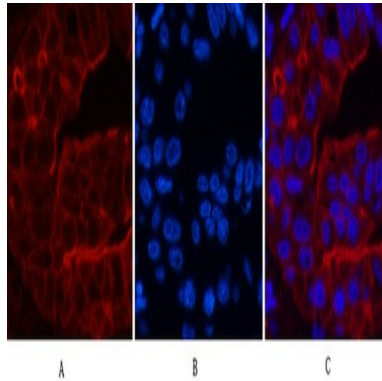
ABC transporters;

Image Data

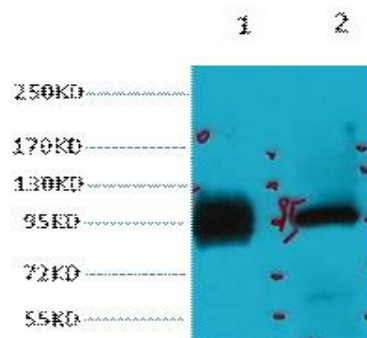


Immunohistochemical analysis of paraffin-embedded Human-breast-cancer tissue. 1, ABCB5 Monoclonal Antibody (11A2) was diluted at 1:200 (4°C, overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min) . 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative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

Note

For research use only.