



# ABCB5 Monoclonal Antibody(11A2)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Catalog No         | BYab-00626                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity         | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Applications       | WB;IHC;IF;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Name          | ABCB5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Protein Name       | ATP-binding cassette sub-family B member 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Immunogen          | Synthetic Peptide of ABCB5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity        | The antibody detects endogenous ABCB5 proteins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Formulation        | PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Source             | Monoclonal, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purification       | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dilution           | WB: 1:2000 IF 1:200 IHC 1:50-300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Synonyms           | ABCB5; ATP-binding cassette sub-family B member 5; ABCB5 P-gp; P-glycoprotein ABCB5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Observed Band      | 90kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cell Pathway       | Cell membrane ; Multi-pass membrane protein .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tissue Specificity | Expressed by CD133-expressing progenitor cells among epidermal melanocytes (at protein level). Widely expressed with specific expression in pigment cells. Highly expressed in several malignant tissues: highly expressed in clinical melanomas, with low expression in normal skin. In melanoma, marks malignant melanoma-initiating cells (MMIC), in which clinical virulence resides as a consequence of unlimited self-renewal capacity, resulting in inexorable tumor progression and metastasis. Also highly expressed in a number of leukemia cells. Expressed in basal limbal epithelium. |
| Function           | 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.                                                                                                                                                                                                                                                                                 |

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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 spliceosom

**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],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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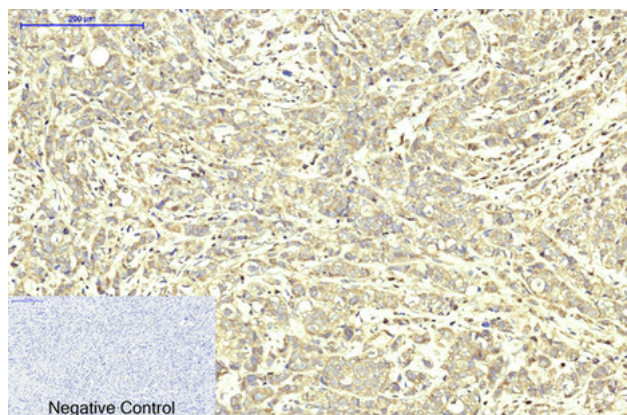
网址: [www.njbybio.com](http://www.njbybio.com)

官方热线: 025-5229-8998

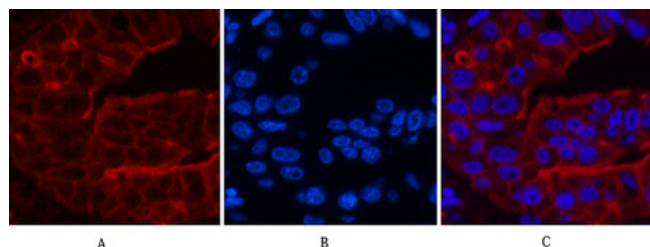
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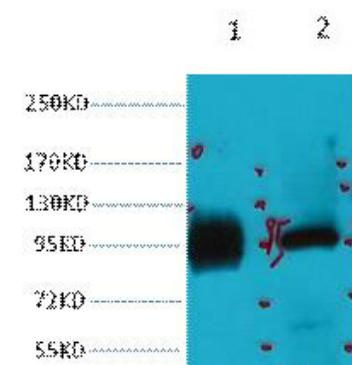
## Products Images



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, Invent biotech, MN, USA).