

# ABCB5 Monoclonal Antibody(11A2)

Catalog # AP63328

## Product Information

Application	WB, IHC-P, IF
Primary Accession	<a href="#">Q2M3G0</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	138641

## Additional Information

Gene ID	340273
Other Names	ABCB5; ATP-binding cassette sub-family B member 5; ABCB5 P-gp; P-glycoprotein ABCB5
Dilution	WB~~WB: 1:2000 IF 1:200 IHC 1:50-300 IHC-P~~N/A IF~~1:50~200
Format	PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.
Storage Conditions	-20°C

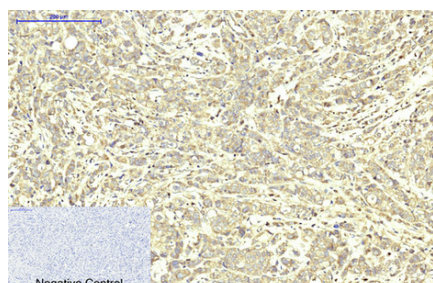
## Protein Information

Name	ABCB5 ( <a href="#">HGNC:46</a> )
Function	Energy-dependent efflux transporter responsible for decreased drug accumulation in multidrug-resistant cells (PubMed: <a href="#">12960149</a> , PubMed: <a href="#">15205344</a> , PubMed: <a href="#">15899824</a> , PubMed: <a href="#">22306008</a> ). Specifically present in limbal stem cells, where it plays a key role in corneal development and repair (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein {ECO:0000255 PROSITE-ProRule:PRU00441, ECO:0000269 PubMed:12960149}
Tissue Location	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

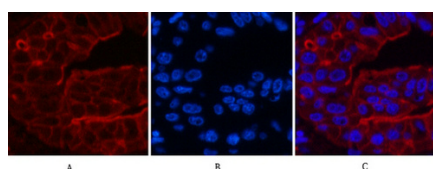
## Background

Drug efflux transporter present in a number of stem cells that acts as a regulator of cellular differentiation. Able to mediate efflux from cells of the rhodamine dye and of the therapeutic drug doxorubicin. Specifically present in limbal stem cells, where it plays a key role in corneal development and repair.

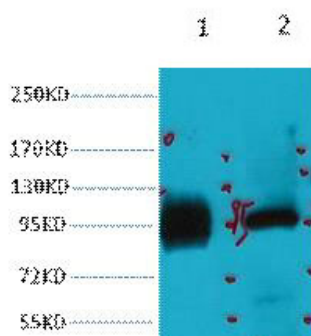
## Images



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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.