

ABCB5 Monoclonal Antibody(11A2)
Catalog # AP63328

Specification

ABCB5 Monoclonal Antibody(11A2) - Product Information

Application	WB, IHC-P, IF
Primary Accession	Q2M3G0
Reactivity	Human
Host	Mouse
Clonality	Monoclonal

ABCB5 Monoclonal Antibody(11A2) - 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~~WB: 1:2000 IF 1:200 IHC 1:50-300

Format

PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.

Storage Conditions

-20°C

ABCB5 Monoclonal Antibody(11A2) - Protein Information

Name ABCB5 ([HGNC:46](#))

Function

Energy-dependent efflux transporter responsible for decreased drug accumulation in multidrug-resistant cells (PubMed: [12960149](http://www.uniprot.org/citations/12960149), PubMed: [15205344](http://www.uniprot.org/citations/15205344), PubMed: [15899824](http://www.uniprot.org/citations/15899824), PubMed: [22306008](http://www.uniprot.org/citations/22306008)). 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).

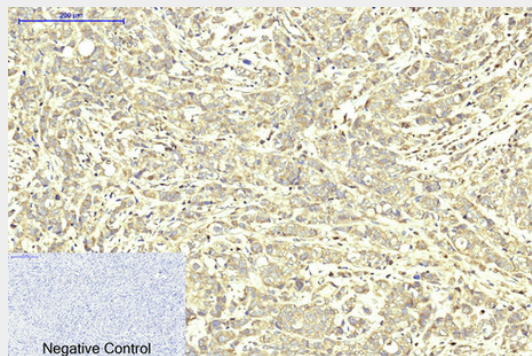
Widely expressed with specific expression in pigment cells. Highly expressed in several malignant tissues: highly expressed in clinical melanomas, with low expression in normal skin. In melanoma, marks malignant melanoma- initiating cells (MMIC), in which clinical virulence resides as a consequence of 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

ABCB5 Monoclonal Antibody(11A2) - Protocols

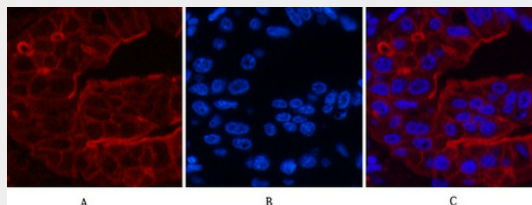
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

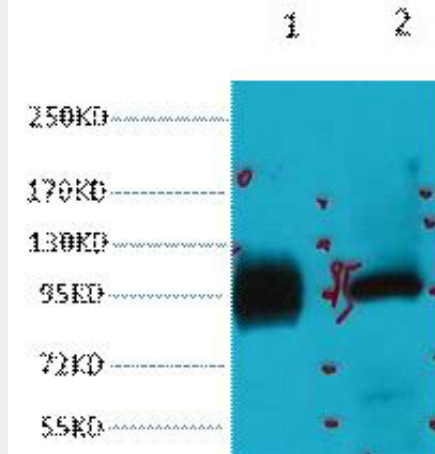
ABCB5 Monoclonal Antibody(11A2) - Images



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, Inventibiotec, MN, USA).

ABCB5 Monoclonal Antibody(11A2) - 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.