

ABCB5 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6122a

Product Information

Application	WB, FC, E
Primary Accession	Q2M3G0
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	138641
Antigen Region	1-30

Additional Information

Gene ID	340273
Other Names	ATP-binding cassette sub-family B member 5, ABCB5 P-gp, P-glycoprotein ABCB5, ABCB5
Target/Specificity	This ABCB5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ABCB5.
Dilution	WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ABCB5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ABCB5 (HGNC:46)
Function	Energy-dependent efflux transporter responsible for decreased drug accumulation in multidrug-resistant cells (PubMed: 12960149 , PubMed: 15205344 , PubMed: 15899824 , PubMed: 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

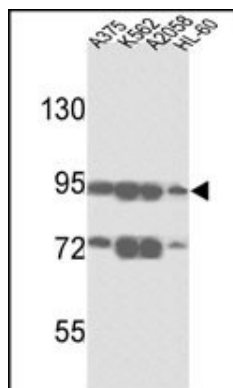
Background

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.

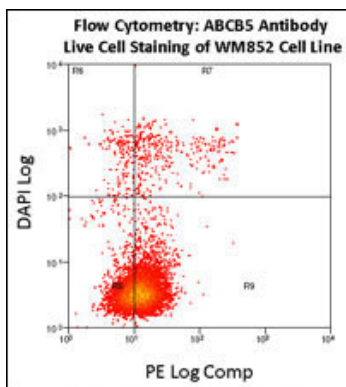
References

Frank,N.Y., Cancer Res. 65 (10), 4320-4333 (2005) Chen,K.G., Pigment Cell Res. 18 (2), 102-112 (2005)
Frank,N.Y., J. Biol. Chem. 278 (47), 47156-47165 (2003)

Images

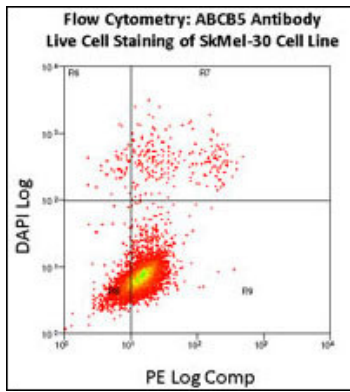


Western blot analysis of ABCB5 Antibody (N-term) (Cat.#AP6122a) in A375, K562, A2058 and HL-60 cell line lysates (35ug/lane). ABCB5 (arrow) was detected using the purified Pab.



Flow Cytometry using ABCB5 Antibody (N-Term) Cat.# AP6122a on WM852 cell line. Live cell staining utilized PE-conjugated goat anti-rabbit (Jackson ImmunoResearch) as a secondary antibody. Analysis was done on an FC500 flow cytometer. Data courtesy of Dr. Steve Reuland, University of Colorado, Denver

Flow Cytometry using ABCB5 Antibody (N-Term) Cat.# AP6122a on SkMel-30 cell line. Live cell staining utilized PE-conjugated goat anti-rabbit (Jackson ImmunoResearch) as a secondary antibody. Analysis was done on an FC500 flow cytometer. Data courtesy of Dr.



Citations

- [Targeting the ABC transporter ABCB5 sensitizes glioblastoma to temozolomide-induced apoptosis through a cell-cycle checkpoint regulation mechanism.](#)
- [ABCB5 identifies a therapy-refractory tumor cell population in colorectal cancer patients.](#)
- [Melanoma spheroids grown under neural crest cell conditions are highly plastic migratory/invasive tumor cells endowed with immunomodulator function.](#)
- [Side population cells from human melanoma tumors reveal diverse mechanisms for chemoresistance.](#)
- [CD133+ melanoma subpopulations contribute to perivascular niche morphogenesis and tumorigenicity through vasculogenic mimicry.](#)
- [Evaluation of a multi-marker immunomagnetic enrichment assay for the quantification of circulating melanoma cells.](#)

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