

**ABCB5 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6122a**

**Specification**

**ABCB5 Antibody (N-term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">Q2M3G0</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	1-30

**ABCB5 Antibody (N-term) - 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~~1:10~50

**Format**

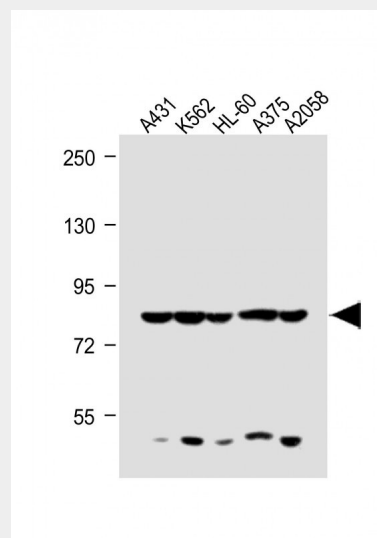
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

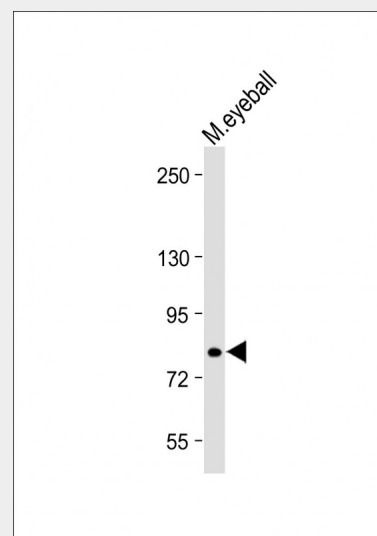
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ABCB5 Antibody (N-term) is for research use only and not for use in diagnostic or



All lanes : Anti-ABCB5 Antibody (N-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: K562 whole cell lysate Lane 3: HL-60 whole cell lysate Lane 4: A375 whole cell lysate Lane 5: A2058 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 138 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-ABCB5 Antibody (N-term) at 1:2000

therapeutic procedures.

#### ABCB5 Antibody (N-term) - Protein Information

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

#### Function

Energy-dependent efflux transporter responsible for decreased drug accumulation in multidrug-resistant cells (PubMed:<a href="http://www.uniprot.org/citations/12960149" target="\_blank">12960149</a>, PubMed:<a href="http://www.uniprot.org/citations/22306008" target="\_blank">22306008</a>, PubMed:<a href="http://www.uniprot.org/citations/15899824" target="\_blank">15899824</a>, PubMed:<a href="http://www.uniprot.org/citations/15205344" target="\_blank">15205344</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}

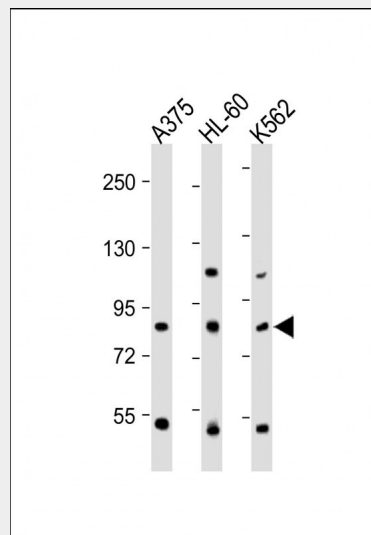
#### Tissue Location

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

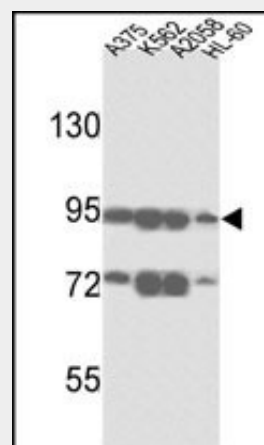
#### ABCB5 Antibody (N-term) - Protocols

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

dilution + Mouse eyeball lysate  
Lysates/proteins at 20 µg per lane.  
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.  
Predicted band size : 138 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

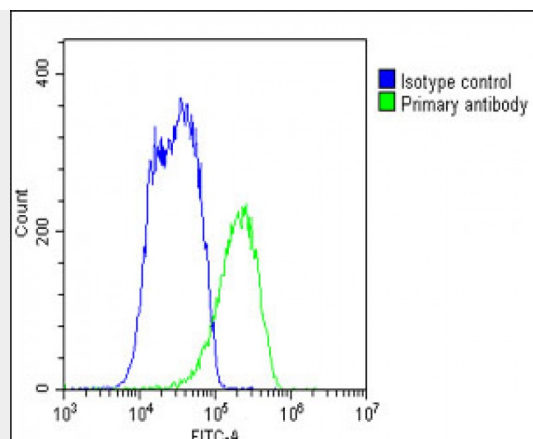


All lanes : Anti-ABCB5 Antibody (N-term) at 1:2000 dilution Lane 1: A375 whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 138 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

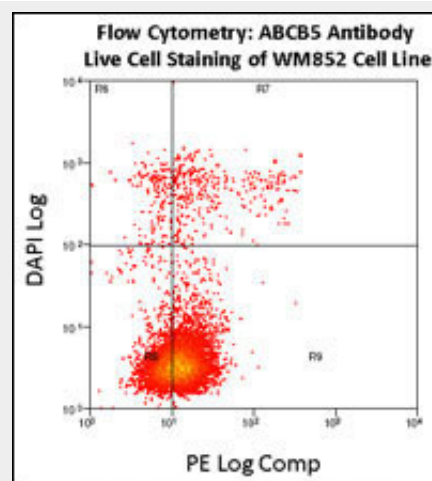


Western blot analysis of ABCB5 Antibody (N-term) (Cat.#AP6122a) in A375, K562, A2058 and HL-60 cell line lysates (35ug/lane). ABCB5 (arrow) was detected using the purified Pab.

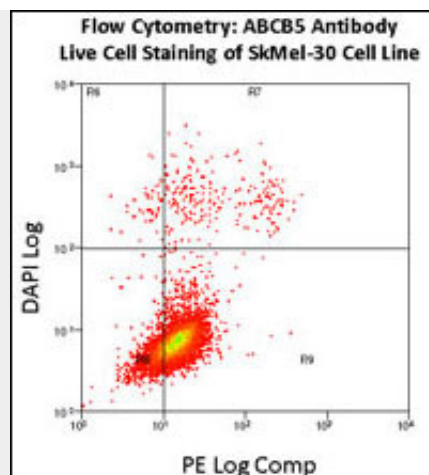
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



Overlay histogram showing HepG2 cells stained with AP6122a (green line). The cells were fixed with 2% paraformaldehyde 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP6122a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.



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. Steve Reuland, University of Colorado, Denver

### ABCB5 Antibody (N-term) - 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.

### ABCB5 Antibody (N-term) - 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)

### ABCB5 Antibody (N-term) - Citations

- [Targeting the ABC transporter ABCB5 sensitizes glioblastoma to temozolomide-induced apoptosis through a cell-cycle checkpoint regulation mechanism.](#)
- [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.](#)
- [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.](#)