

## Mouse anti-Human ABCB5 Monoclonal Antibody | anti-ABCB5 antibody

Anti-ABCB5 Antibody

|                               |                      |                            |                                                           |
|-------------------------------|----------------------|----------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA293371</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------|----------------------------|-----------------------------------------------------------|

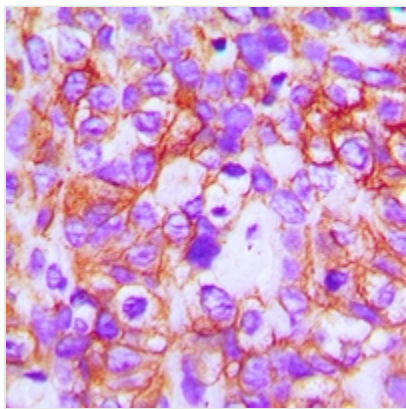
### PRODUCT SYNONYMS

ABCB5; Monoclonal Antibody; Anti-ABCB5 Antibody; ATP-binding cassette sub-family B member 5; ABCB5 P-gp; P-glycoprotein ABCB5; anti-ABCB5 antibody

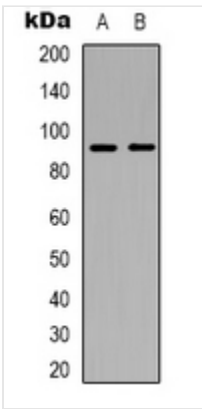
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                     | Recognizes endogenous levels of ABCB5 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                     | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-ABCB5 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cellular Location                               | Cell membrane; Multi-pass membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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 |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                             |

IMAGES



**IHC (Immunohistochemistry)**  
Dilution: WB: (1/1000 - 1/2000), IH (1/200 - 1/500)Immunohistochemical analysis of ABCB5 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



**WB (Western Blot)**  
Dilution: WB (1/1000 - 1/2000), IH (1/200 - 1/500)Western blot analysis of ABCB5 expression in HeLa (A), 293T (B) whole cell lysates.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ABCB5 antibody | Mouse monoclonal antibody to ABCB5<br>KLH-conjugated synthetic peptide encompassing a sequence of human ABCB5. The exact sequence is proprietary.<br>Energy-dependent efflux transporter responsible for decreased drug accumulation in multidrug-resistant cells (PubMed:12960149, PubMed:22306008, PubMed:15899824, PubMed:15205344). Specifically present in limbal stem cells, where it plays a key role in corneal development and repair (By similarity). |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                            |
|----------------------------------|------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 255708477                                                                                                  |
| NCBI GeneID                      | 340273                                                                                                     |
| NCBI Accession #                 | NP_001157413.1                                                                                             |
| NCBI GenBank Nucleotide #        | NM_001163941.1                                                                                             |
| UniProt Accession #              | Q2M3G0; Q2M3I5; Q5I5Q7; Q5I5Q8; Q6KG50; A4D131; A7BKA4; B5MD19; B7WPL1; F8QQP8; F8QQP9; J3KQ04             |
| Molecular Weight                 | 89,832 Da                                                                                                  |
| NCBI Official Full Name          | ATP-binding cassette sub-family B member 5 isoform 1                                                       |
| NCBI Official Synonym Full Names | ATP-binding cassette, sub-family B (MDR/TAP), member 5                                                     |
| NCBI Official Symbol             | ABCB5                                                                                                      |
| NCBI Official Synonym Symbols    | ABCB5beta; EST422562; ABCB5alpha                                                                           |
| NCBI Protein Information         | ATP-binding cassette sub-family B member 5; ABCB5 P-gp; ATP-binding cassette protein; P-glycoprotein ABCB5 |
| UniProt Protein Name             | ATP-binding cassette sub-family B member 5                                                                 |
| UniProt Gene Name                | ABCB5                                                                                                      |
| UniProt Entry Name               | ABCB5_HUMAN                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.