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# Anti-ABCB5 Reference Antibody (Brigham and Women's patent anti-ABCB5)

Recombinant Antibody
Catalog # APR10762

## Product Information

| | |
|---|---|
| **Application** | Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA |
| **Primary Accession** | Q2M3G0 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Calculated MW** | 138641 |

## Additional Information

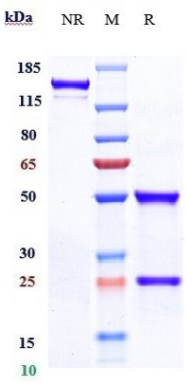
| | |
|---|---|
| **Target/Specificity** | ABCB5 |
| **Endotoxin** | |
| **Conjugation** | Unconjugated |
| **Expression system** | CHO |
| **Format** | Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column. |

## Protein Information

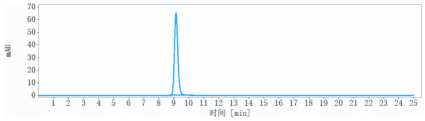
| | |
|---|---|
| **Name** | ABCB5 ( HGNC:46) |
| **Function** | Energy-dependent efflux transporter responsible for decreased drug accumulation in multidrug-resistant cells (PubMed:12960149, PubMed:15205344, PubMed:15899824, PubMed:22306008). Specifically present in limbal stem cells, where it plays 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

## Images




Anti-ABCB5 Reference Antibody (Brigham and Women's patent anti-ABCB5) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 90%.



The purity of Anti-ABCB5 Reference Antibody (Brigham and Women's patent anti-ABCB5) is more than 95%, determined by SEC-HPLC.

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