

**Anti-ABCB5 Reference Antibody (Brigham and Women's patent anti-ABCB5)  
Recombinant Antibody  
Catalog # APR10762**

**Specification**

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**Anti-ABCB5 Reference Antibody (Brigham and Women's patent anti-ABCB5) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">Q2M3G0</a>
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145 KDa

**Anti-ABCB5 Reference Antibody (Brigham and Women's patent anti-ABCB5) - Additional Information**

**Target/Specificity**  
ABCB5

**Endotoxin**  
< 0.001EU/ µg,determined by LAL method.

**Conjugation**  
Unconjugated

**Expression system**  
CHO Cell

**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

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

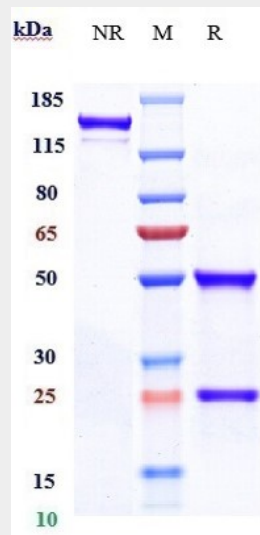
Expressed by CD133-expressing progenitor cells among epidermal melanocytes (at protein level). Widely expressed with specific expression in pigment cells. Highly expressed in several malignant tissues: highly expressed in clinical melanomas, with low expression in normal skin. In melanoma, marks malignant 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

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

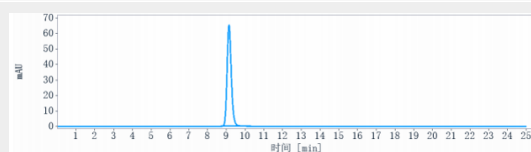
Provided below are standard protocols that you may find useful for product applications.

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

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



Anti-ABCB5 Reference Antibody (Brigham and Women's patent anti-ABCB5) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. 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.