

ABCB5 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6122a**Specification**

ABCB5 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q2M3G0](#)**ABCB5 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 340273**Other Names**

ATP-binding cassette sub-family B member 5, ABCB5 P-gp, P-glycoprotein ABCB5, ABCB5

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6122a](/products/AP6122a) was selected from the N-term region of human ABCB5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ABCB5 Antibody (N-term) Blocking Peptide - 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: [22306008](http://www.uniprot.org/citations/22306008), PubMed: [15899824](http://www.uniprot.org/citations/15899824), PubMed: [15205344](http://www.uniprot.org/citations/15205344)). 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ABCB5 Antibody (N-term) Blocking Peptide - Images**ABCB5 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)