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ABCB5 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP6122a

Specification

ABCB5 Antibody (N-term) Blocking Peptide - Product Information

Primary 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 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)

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)

Function
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).

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