

ABCB9 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6115a**Specification**

ABCB9 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [O9NP78](#)
Other Accession [NP_062571](#)

ABCB9 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 23457

Other Names

ATP-binding cassette sub-family B member 9, ATP-binding cassette transporter 9, ABC transporter 9 protein, hABCB9, TAP-like protein, TAPL, ABCB9, KIAA1520

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6115a](/product/products/AP6115a) was selected from the C-term region of human ABCB9. 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.

ABCB9 Antibody (C-term) Blocking Peptide - Protein Information

Name ABCB9 ([HGNC:50](#))

Function

ATP-dependent low-affinity peptide transporter which translocates a broad spectrum of peptides from the cytosol to the lysosomal lumen for degradation (PubMed:[15863492](http://www.uniprot.org/citations/15863492), PubMed:[17977821](http://www.uniprot.org/citations/17977821), PubMed:[18434309](http://www.uniprot.org/citations/18434309), PubMed:[22641697](http://www.uniprot.org/citations/22641697), PubMed:[25646430](http://www.uniprot.org/citations/25646430), PubMed:[30353140](http://www.uniprot.org/citations/30353140), PubMed:[30877195](http://www.uniprot.org/citations/30877195), PubMed:[31417173](http://www.uniprot.org/citations/31417173)). Displays a

broad peptide length specificity from 6-mer up to at least 59-mer peptides with an optimum of 23-mers (PubMed: 15863492, PubMed: 25646430). Binds and transports smaller and larger peptides with the same affinity (PubMed: 31417173). Favors positively charged, aromatic or hydrophobic residues in the N- and C-terminal positions whereas negatively charged residues as well as asparagine and methionine are not favored (PubMed: 15863492, PubMed: 17977821, PubMed: 18434309).

Cellular Location

Lysosome membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441, ECO:0000269|PubMed:10748049, ECO:0000269|PubMed:15577206, ECO:0000269|PubMed:17897319, ECO:0000269|PubMed:17977821, ECO:0000269|PubMed:18175933, ECO:0000269|PubMed:18952056, ECO:0000269|PubMed:20377823, ECO:0000269|PubMed:21212514}. Note=May be located in membrane rafts Takes an intracellular route from the endoplasmic reticulum (ER), via Golgi and early endosomes to late endosomal and lysosomal compartments (PubMed:30877195).

Tissue Location

Highly expressed in testis, and at moderate levels in brain, spinal cord, and thyroid. Not expressed in monocytes but strongly expressed during differentiation of monocytes to dendritic cells and macrophages.

ABCB9 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ABCB9 Antibody (C-term) Blocking Peptide - Images

ABCB9 Antibody (C-term) Blocking Peptide - Background

The membrane-associated protein ABCB9 is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. The function of this half-transporter has not yet been determined; however, this protein may play a role in lysosomes. Alternative splicing of this gene results in three known products which are likely to have different substrate specifications.

ABCB9 Antibody (C-term) Blocking Peptide - References

Kobayashi, A., et al., Biochem. Biophys. Res. Commun. 309(4):815-822 (2003).Zhang, F., et al., J. Biol. Chem. 275(30):23287-23294 (2000).Allikmets, R., et al., Hum. Mol. Genet. 5(10):1649-1655 (1996).