

**ATP1B3 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12745b****Specification**

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**ATP1B3 Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [P54709](#)

**ATP1B3 Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 483

**Other Names**

Sodium/potassium-transporting ATPase subunit beta-3, Sodium/potassium-dependent ATPase subunit beta-3, ATPB-3, CD298, ATP1B3

**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.

**ATP1B3 Antibody (C-term) Blocking peptide - Protein Information**

**Name** ATP1B3

**Function**

This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The exact function of the beta-3 subunit is not known.

**Cellular Location**

Apical cell membrane {ECO:0000250|UniProtKB:Q63377}; Single-pass type II membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q63377}; Single-pass type II membrane protein. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

**ATP1B3 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**ATP1B3 Antibody (C-term) Blocking peptide - Images****ATP1B3 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene belongs to the family of Na<sup>+</sup>/K<sup>+</sup> and H<sup>+</sup>/K<sup>+</sup> ATPases beta chain proteins, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup> -ATPases. Na<sup>+</sup>/K<sup>+</sup> -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na<sup>+</sup>/K<sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq].

**ATP1B3 Antibody (C-term) Blocking peptide - References**

Floyd, R.V., et al. Reprod Sci 17(4):366-376(2010) Aughey, R.J., et al. J. Appl. Physiol. 103(1):39-47(2007) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) : Chiampanichayakul, S., et al. Tissue Antigens 68(6):509-517(2006) Chi, A., et al. J. Proteome Res. 5(11):3135-3144(2006)