

**ATP1B2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9271c****Specification****ATP1B2 Antibody (Center) Blocking Peptide -  
Product Information**Primary Accession [P14415](#)**ATP1B2 Antibody (Center) Blocking Peptide -  
Additional Information****Gene ID 482****Other Names**

Sodium/potassium-transporting ATPase subunit beta-2, Adhesion molecule in glia, AMOG, Sodium/potassium-dependent ATPase subunit beta-2, ATP1B2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9271c](/products/AP9271c) was selected from the Center region of human ATP1B2. 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.

**ATP1B2 Antibody (Center) Blocking Peptide -  
Protein Information****Name** ATP1B2**ATP1B2 Antibody (Center) Blocking  
Peptide - Background**

The protein 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.

**ATP1B2 Antibody (Center) Blocking  
Peptide - References**

Guey, L.T., et.al, Eur. Urol. 57 (2), 283-292 (2010) Tokhtaeva, E., et.al, Biochemistry 48 (48), 11421-11431 (2009) Hosgood, H.D. et.al, Respir Med 103 (12), 1866-1870 (2009)

**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-2 subunit is not known.

**Cellular Location**

Cell membrane; Single-pass type II membrane protein

**ATP1B2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)