

## Product datasheet for **AP50294PU-N**

### ATP1B2 (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western blotting:</b> 1/100 - 1/500. <b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/100. <b>Flow cytometry:</b> 1/10 - 1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 121~150 amino acids from the Center region of human ATP1B2
Specificity:	This antibody reacts to ATP1B2.
Formulation:	PBS containing 0.09% (W/V) sodium azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATPase Na <sup>+</sup> /K <sup>+</sup> transporting subunit beta 2
Database Link:	<a href="#">Entrez Gene 482 Human P14415</a>



[View online »](#)

**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.

**Synonyms:**

Sodium pump ATPase subunit beta 2

**Note:**

**Molecular Weight:** 33367 Da

**Protein Families:**

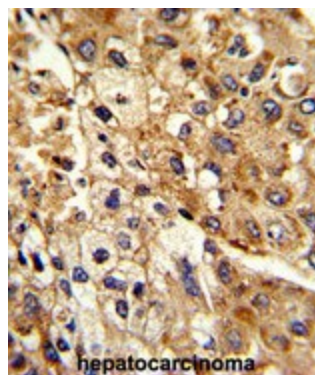
Transmembrane

**Protein Pathways:**

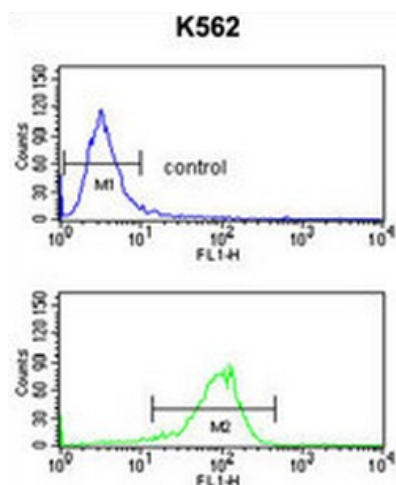
Cardiac muscle contraction

**Product images:**


Western blot analysis of ATP1B2 Antibody (Center) in K562 cell line lysates (35ug/lane). ATP1B2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ATP1B2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ATP1B2 Antibody (Center) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.