

Datasheet for ABIN1881088

**anti-ATP1B2 antibody (C-Term)**

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## Overview

Quantity:	400 µL
Target:	ATP1B2
Binding Specificity:	AA 247-276, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1B2 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This ATP1B2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 247-276 amino acids from the C-terminal region of human ATP1B2.
Clone:	RB41560
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Rb, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	ATP1B2
Alternative Name:	ATP1B2 ( <a href="#">ATP1B2 Products</a> )

## Target Details

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 2 subunit.
Molecular Weight:	33367
NCBI Accession:	<a href="#">NP_001669</a>
UniProt:	<a href="#">P14415</a>
Pathways:	<a href="#">Thyroid Hormone Synthesis</a>

## Application Details

Application Notes:	WB: 1:1000. WB: 1:1000
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

## Publications

Product cited in:	Boer, Troost, Timmermans, van Rijen, Spliet, Aronica: "Pi3K-mTOR signaling and AMOG expression in epilepsy-associated glioneuronal tumors." in: <b>Brain pathology (Zurich,</b>
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**Switzerland**), Vol. 20, Issue 1, pp. 234-44, (2010) ([PubMed](#)).

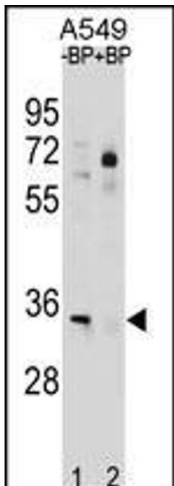
Floyd, Wray, Quenby, Martín-Vasallo, Mobasheri: "Expression and distribution of Na, K-ATPase isoforms in the human uterus." in: **Reproductive sciences (Thousand Oaks, Calif.)**, Vol. 17, Issue 4, pp. 366-76, (2010) ([PubMed](#)).

Guey, García-Closas, Murta-Nascimento, Lloreta, Palencia, Kogevinas, Rothman, Vellalta, Calle, Marenne, Tardón, Carrato, García-Closas, Serra, Silverman, Chanock, Real, Malats: "Genetic susceptibility to distinct bladder cancer subphenotypes." in: **European urology**, Vol. 57, Issue 2, pp. 283-92, (2010) ([PubMed](#)).

Tokhtaeva, Sachs, Vagin: "Assembly with the Na,K-ATPase alpha(1) subunit is required for export of beta(1) and beta(2) subunits from the endoplasmic reticulum." in: **Biochemistry**, Vol. 48, Issue 48, pp. 11421-31, (2009) ([PubMed](#)).

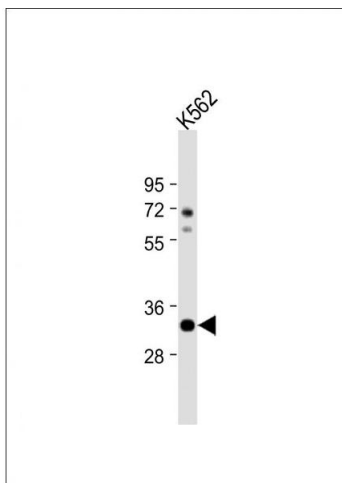
Hosgood, Menashe, He, Chanock, Lan: "PTEN identified as important risk factor of chronic obstructive pulmonary disease." in: **Respiratory medicine**, Vol. 103, Issue 12, pp. 1866-70, (2009) ([PubMed](#)).

Images



Western Blotting

**Image 1.** ATP1B2 Antibody (C-term) (ABIN1881088 and ABIN2838749) western blot analysis in A549 cell line lysates (35 µg/lane). This demonstrates the ATP1B2 antibody detected the ATP1B2 protein (arrow).



### Western Blotting

**Image 2.** Anti-ATP1B2 Antibody (C-term) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.