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Datasheet for ABIN5514516
anti-ATP1B1 antibody (C-Term)

2 Images

Overview

Quantity:	100 µL
Target:	ATP1B1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Zebrafish (Danio rerio), Rabbit, Guinea Pig, Sheep, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C-terminal region of Human ATP1B1
Sequence:	KYLQPLLA VQ FTNLTMDTEI RIECKAYGEN IGYSEKDRFQ GRFDVKIEVK
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 93%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against ATP1B1. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	ATP1B1
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Target Details

Alternative Name: ATP1B1 ([ATP1B1 Products](#))

Background: The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -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⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 1 subunit.

Alias Symbols: ATP1B1, ATP1B,

Protein Interaction Partner: Bace1, EGFR, ATP4A, UBC, BRCA1, BARD1, PAXIP1, GCH1, USP4, NEDD4L, ELAVL1, NDRG2, TRMT2A, DDAH2, HLA-DRB1, HLA-DRA, EZH2, CRIP2, KMT2B, PSME1, HLA-DRB5, HLA-DRB4, HLA-DRB3, LRIF1, FXYD7, FXYD1,

Protein Size: 301

Gene ID: 481

Pathways: [Thyroid Hormone Synthesis](#), [Ribonucleoside Biosynthetic Process](#), [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

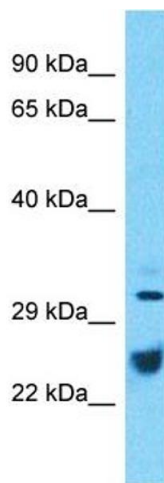
Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Handling

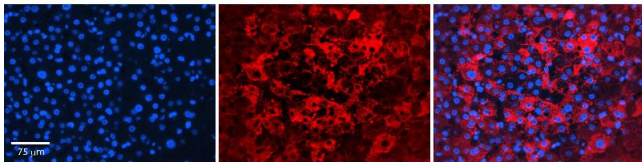
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. Host: Rabbit Target Name: ATP1B1 Sample Type: Thymus Tumor lysates Antibody Dilution: 1.0ug/ml



Immunohistochemistry

Image 2. Rabbit Anti-ATP1B1 Antibody Formalin Fixed Paraffin Embedded Tissue: Human Liver Tissue Observed Staining: Plasma membrane and cytoplasm in hepatocytes Primary Antibody Concentration: 1:100 Other Working Concentrations: N/A Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec