Datasheet for ABIN2781852

anti-ATP1B1 antibody (Middle Region)

5 Images

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Overview

Quantity:	100 µL
Target:	ATP1B1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Cow, Rabbit, Guinea Pig, Sheep, Horse, Pig
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 middle region of human ATP1B1
Sequence:	VMKYNPNVLP VQCTGKRDED KDKVGNVEYF GLGNSPGFPL QYYPYYGKLL
Predicted Reactivity:	Cow: 92%, Dog: 86%, Guinea Pig: 85%, Horse: 86%, Human: 100%, Mouse: 100%, Pig: 92%, Rabbit: 92%, Rat: 100%, Sheep: 92%
Characteristics:	This is a rabbit polyclonal antibody against ATP1B1. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	ATP1B1

Target Details

Alternative Name:	ATP1B1 (ATP1B1 Products)
Background:	ATP1B1 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.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. Alternatively spliced transcript variants encoding different isoforms have been identified. Alias Symbols: ATP1B, MGC1798 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
Molecular Weight:	35 kDa
Gene ID:	481
NCBI Accession:	NM_001001787, NP_001001787
UniProt:	P05026
Pathways:	Thyroid Hormone Synthesis, Ribonucleoside Biosynthetic Process, SARS-CoV-2 Protein Interactome

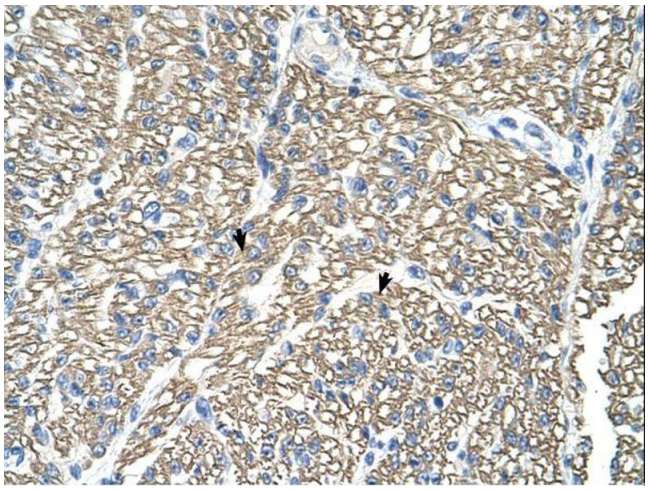
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 301 AA
Restrictions:	For Research Use only

Handling

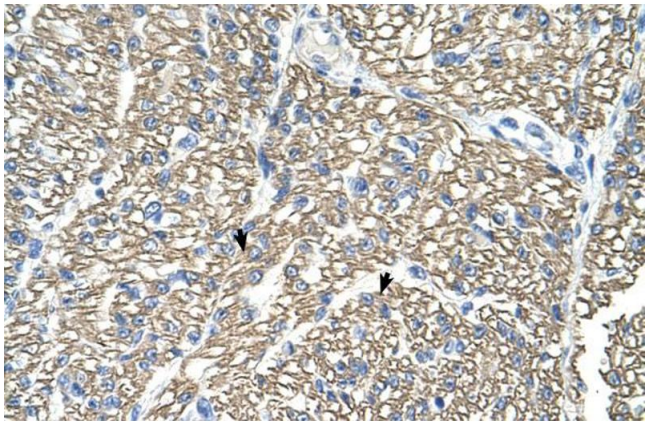
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
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



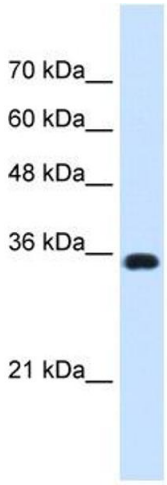
Immunohistochemistry

Image 1.



Immunohistochemistry

Image 2. Human Heart



Western Blotting

Image 3. WB Suggested Anti-ATP1B1 Antibody Titration: 0.25ug/ml Positive Control: HepG2 cell lysate ATP1B1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells

Please check the product details page for more images. Overall 5 images are available for ABIN2781852.