

Rabbit ATP1B1 Polyclonal Antibody | anti-ATP1B1 antibody

ATP1B1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327170	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

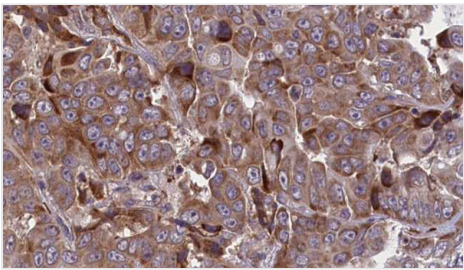
PRODUCT SYNONYMS

ATP1B1; Polyclonal Antibody; ATP1B1 Antibody; Adenosinetriphosphatase; AT1B1_HUMAN; ATP 1B; ATP1B; ATPase Na+/K+ transporting beta 1 polypeptide; Atpb 1; ATPBS; Beta 1 subunit of Na(+) K(+) ATPase; Na K ATPase beta 1 polypeptide; Na+/K+ ATPase beta 1 subunit; Sodium/potassium dependent ATPase beta 1 subunit; Sodium/potassium transporting ATPase beta 1 chain; Sodium/potassium transporting ATPase subunit beta 1; Sodium/potassium-dependent ATPase subunit beta-1; Sodium/potassium-transporting ATPase subunit beta-1; anti-ATP1B1 antibody

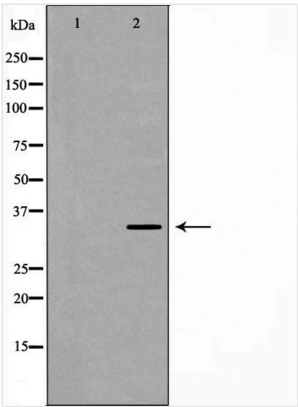
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATP1B1 antibody detects endogenous levels of total ATP1B1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	303
Applicable Applications for anti-ATP1B1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATP1B1
Subcellular Location	Membrane.
Tissue Specificity	Found in most tissues.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (92%), Bovine (91%), Horse (100%), Sheep (91%), Rabbit (83%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327170 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Mouse brain lysate, using ATP1B1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP1B1 antibody

Description: 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 described, but their biological validity is not known.

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 beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane.

Subunit Structure: The sodium/potassium-transporting ATPase is composed of a catalytic alpha subunit, an auxiliary non-catalytic beta subunit and an additional regulatory subunit. Interacts with regulatory subunit FXYD1 (By similarity). Interacts with regulatory subunit FXYD3 (By similarity). Interacts with NKAIN1, NKAIN2 and NKAIN4 (By similarity). Interacts with MLC1 (PubMed:22328087). Part of a complex containing MLC1, TRPV4, AQP4 and HEPACAM (PubMed:22328087). Interacts with KIRREL3 (PubMed:25902260). Interacts with OBSCN (via protein kinase domain 1) (By similarity).

Post-translational Modifications: Glutathionylated.

Similarity: The C-terminal lobe folds into an immunoglobulin-like domain and mediates cell adhesion properties. Belongs to the X(+)/potassium ATPases subunit beta family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502277
NCBI GeneID	481
NCBI Accession #	NP_001668.1
NCBI GenBank Nucleotide #	NM_001677.3
UniProt Accession #	P05026; Q5TGZ3
Molecular Weight	Observed: 35 kDa Predicted: 36 kDa
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit beta-1
NCBI Official Synonym Full Names	ATPase Na ⁺ /K ⁺ transporting subunit beta 1
NCBI Official Symbol	ATP1B1

NCBI Official Synonym Symbols	ATP1B
NCBI Protein Information	sodium/potassium-transporting ATPase subunit beta-1
UniProt Protein Name	Sodium/potassium-transporting ATPase subunit beta-1
UniProt Gene Name	ATP1B1
UniProt Synonym Gene Names	ATP1B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/atp1b1-antibody-immunohistochemistry-western-blot-elisa/327170>