

Rabbit ATP7B Polyclonal Antibody | anti-ATP7B antibody

Anti-ATP7B Antibody Picoband

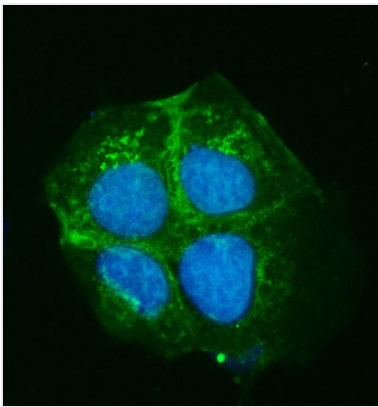
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126056	Rabbit	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

ATP7B; Polyclonal Antibody; Anti-ATP7B Antibody Picoband; anti-ATP7B antibody

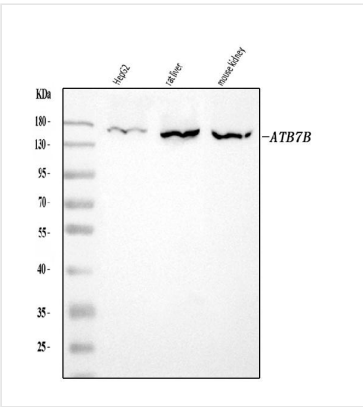
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ATP7B antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human ATP7B recombinant protein (Position: Q241-K495).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 2. IF analysis of ATP7B using anti-ATP7B antibody (AAA126056).ATP7B was detected in an immunocytochemical section of Caco-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ATP7B Antibody (AAA126056) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of ATP7B using anti-ATP7B antibody (AAA126056).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: rat liver tissue lysates,Lane 3: mouse kidney tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ATP7B antigen affinity purified polyclonal antibody (#AAA126056) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ATP7B at approximately 157 kDa. The expected band size for ATP7B is at 157 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP7B antibody	ATPase, Cu ⁺⁺ transporting, beta polypeptide (Wilson disease) protein, also called ATP7B, is an ATPase that transports copper. This gene is a member of the P-type cation transport ATPase family and encodes a protein with several membrane-spanning domains, an ATPase consensus sequence, a hinge domain, a phosphorylation site, and at least two putative copper-binding sites. ATP7B is mapped to 13q14.3. This protein functions as a monomer, exporting copper out of the cells. When copper levels are in excess, ATP7B redistributes to a vesicular compartment near the biliary canalicular membranes for elimination of excess copper into bile, and it is transported along liver cell microtubules via interaction with the p62 dynactin subunit.
Product Categories/Family for anti-ATP7B antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	55743071
NCBI GeneID	540
NCBI Accession #	NP_000044.2
NCBI GenBank Nucleotide #	NM_000053.3
UniProt Accession #	P35670; Q16318; Q16319; Q4U3V3; Q59FJ9; Q5T7X7
Molecular Weight	157,263 Da
NCBI Official Full Name	copper-transporting ATPase 2 isoform a
NCBI Official Synonym Full Names	ATPase, Cu ⁺⁺ transporting, beta polypeptide
NCBI Official Symbol	ATP7B
NCBI Official Synonym Symbols	WD; PWD; WC1; WND

NCBI Protein Information	copper-transporting ATPase 2; copper pump 2; Wilson disease-associated protein; ATPase, Cu(2+)- transporting, beta polypeptide
UniProt Protein Name	Copper-transporting ATPase 2
UniProt Gene Name	ATP7B
UniProt Synonym Gene Names	PWD; WC1; WND
UniProt Entry Name	ATP7B_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atp7b-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/126056>