

Rabbit anti-Human ATP7A Polyclonal Antibody | anti-ATP7A antibody

Anti-ATP7A Antibody Picoband

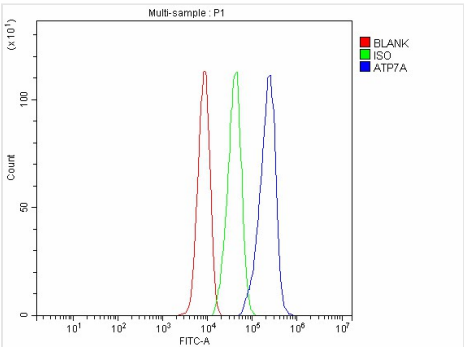
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127033	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

ATP7A; Polyclonal Antibody; Anti-ATP7A Antibody Picoband; Copper-transporting ATPase 1; ATPase copper transporting alpha; MC1; MNK; EC 7.2.2.8; Copper pump 1; Menkes disease-associated protein; anti-ATP7A antibody

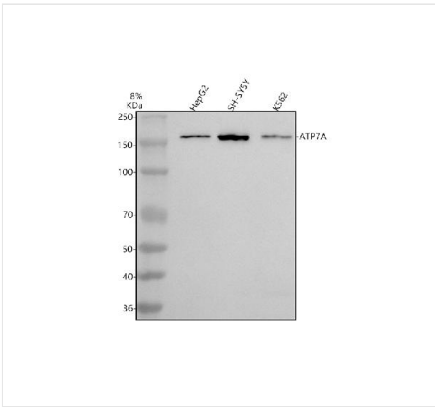
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
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 .
Applicable Applications for anti-ATP7A antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ATP7A, which shares 79.2% amino acid (aa) sequence identity with both mouse and rat ATP7A.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Preparation and Storage	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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-ATP7A antibody (AAA127033).Overlay histogram showing HepG2 cells stained with AAA127033 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ATP7A Antibody (AAA127033, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of ATP7A using anti-ATP7A antibody (AAA127033).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: human SH-SY5Y whole cell lysates,Lane 3: human K562 whole cell 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-ATP7A antigen affinity purified polyclonal antibody (#AAA127033) at 0.5ug/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 ATP7A at approximately 163 kDa. The expected band size for ATP7A is at 163 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP7A antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-ATP7A antibody	Primary Antibodies
References	1. Cecchi, C., Biasotto, M., Tosi, M., Avner, P. The mottled mouse as a model for human Menkes disease: identification of mutations in the Atp7a gene. Hum. Molec. Genet. 6: 425-433, 1997. Note: Erratum: Hum. Molec. Genet. 6: 829 only, 1997.2. Chelly, J., Tumer, Z., Tonnesen, T., Petterson, A., Ishikawa-Brush, Y., Tommerup, N., Horn, N., Monaco, A. P. Isolation of a candidate gene for Menkes disease that encodes a potential heavy metal binding protein. Nature Genet. 3: 14-19, 1993.3. Christodoulou, J., Danks, D. M., Sarkar, B., Baerlocher, K. E., Casey, R., Horn, N., Tumer, Z., Clarke, J. T. R. Early treatment of Menkes disease with parenteral cooper (sic)-histidine: long-term follow-up of four treated patients. Am. J. Med. Genet. 76: 154-164, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115529486
NCBI GeneID	538
NCBI Accession #	NP_000043.3
NCBI GenBank Nucleotide #	NM_000052.5
UniProt Accession #	Q04656; O00227; O00745; Q9BYY8; B1AT72
Molecular Weight	11,522 Da
NCBI Official Full Name	copper-transporting ATPase 1
NCBI Official Synonym Full Names	ATPase, Cu++ transporting, alpha polypeptide

NCBI Official Symbol	ATP7A
NCBI Official Synonym Symbols	MK; MNK; DSMAX; SMAX3
NCBI Protein Information	copper-transporting ATPase 1; copper pump 1; Cu ⁺⁺ -transporting P-type ATPase; Menkes disease-associated protein
UniProt Protein Name	Copper-transporting ATPase 1
UniProt Gene Name	ATP7A
UniProt Synonym Gene Names	MC1; MNK
UniProt Entry Name	ATP7A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/atp7a-antibody-flow-cytometry-western-blot-elisa/127033>