

Human ATP7B (Copper-transporting ATPase 2) ELISA Kit | ATP7B elisa kit

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CATALOG #
AAA251062

REACTIVITY
Human

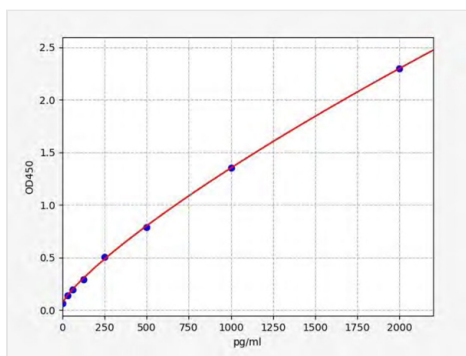
PRODUCT SYNONYMS

ATP7B (Copper-transporting ATPase 2); Human ATP7B (Copper-transporting ATPase 2) ELISA Kit; ATP7B; Copper-transporting ATPase 2; Copper pump 2; Wilson disease-associated protein; ATP7B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize ATP7B, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.2-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP7B elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti ATP7B antibody was pre-coated onto the 96-well plate. The biotin conjugated anti ATP7B antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with ATP7B conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of ATP7B in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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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/human-elisa-kits/atp7b-copper-transporting-atpase-2/251062>