

Human ATPase, Cu⁺⁺ Transporting Beta Polypeptide (ATP7b) ELISA Kit | ATP7b elisa kit

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CATALOG #
AAA20748

REACTIVITY
Human

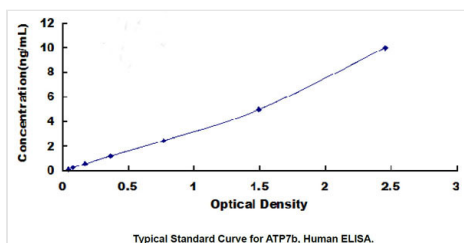
PRODUCT SYNONYMS

ATPase; Cu⁺⁺ Transporting Beta Polypeptide (ATP7b); Human ATPase; Cu⁺⁺ Transporting Beta Polypeptide (ATP7b) ELISA Kit; PWD; WC1; WD; WND; Wilson Disease Protein; Copper pump 2; Wilson disease-associated protein; ATP7b elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP7b. No significant cross-reactivity or interference between ATP7b and analogues was observed.
Sequence Length	1,447
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ATP7b were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ATP7b were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP7b elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ATP7b. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ATP7b. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ATP7b, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of ATP7b in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ATP7b in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for ATP7b elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	119629300
NCBI GeneID	540
UniProt Accession #	P35670; Q16318; Q16319; Q4U3V3; Q59FJ9; Q5T7X7
Molecular Weight	155,125 Da
NCBI Official Full Name	ATPase, Cu ⁺⁺ transporting, beta polypeptide, isoform CRA_d
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
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://www.aaabiotech.com/human-elisa-kits/atpase-cu-transporting-beta-polypeptide-atp7b/20748>