

Human Copper transporting ATPase 1 (ATP7A) ELISA Kit | ATP7A elisa kit

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CATALOG #
AAA245498

REACTIVITY
Human

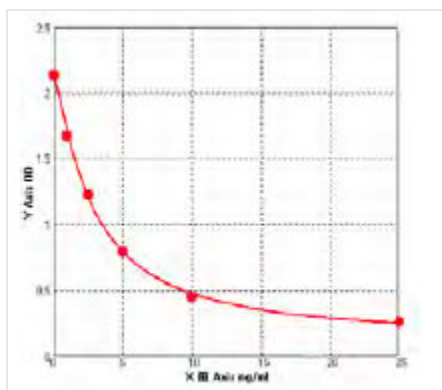
PRODUCT SYNONYMS

Copper transporting ATPase 1 (ATP7A); Human Copper transporting ATPase 1 (ATP7A) ELISA Kit; ATP7A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP7A elisa kit

Intended Uses: This ATP7A ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ATP7A. This ELISA kit for research use only!

Principle of the Assay: ATP7A ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ATP7A antibody and an ATP7A-HRP conjugate. The assay sample and buffer are incubated together with ATP7A-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ATP7A concentration since ATP7A from samples and ATP7A-HRP conjugate compete for the anti-ATP7A antibody binding site. Since the number of sites is limited, as more sites are occupied by ATP7A from the sample, fewer sites are left to bind ATP7A-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ATP7A concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	532691750
NCBI GeneID	538
NCBI Accession #	NP_000043.4
NCBI GenBank Nucleotide #	NM_000052.6
Molecular Weight	11,522 Da
NCBI Official Full Name	copper-transporting ATPase 1 isoform 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://www.aaabiotech.com/human-elisa-kits/copper-transporting-atpase-1-atp7a/245498>