

Human ATPase, Na⁺/K⁺ transporting, alpha 1 polypeptide ELISA Kit | ATP1A1 elisa kit

Human Sodium/potassium-transporting ATPase subunit alpha-1, ATP1A1 ELISA Kit

CATALOG #
AAA112425

REACTIVITY
Human

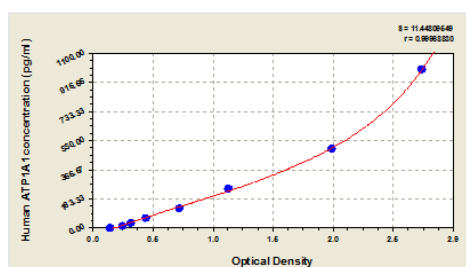
PRODUCT SYNONYMS

ATPase; Na⁺/K⁺ transporting; alpha 1 polypeptide; Human Sodium/potassium-transporting ATPase subunit alpha-1; ATP1A1 ELISA Kit; Human Sodium/potassium-transporting ATPase subunit alpha-1 (ATP1A1) ELISA kit; MGC3285; MGC51750; Na⁺; K⁺ ATPase alpha subunit; Na⁺/K⁺ -ATPase alpha 1 subunit; Na⁺/K⁺ ATPase 1; Na; K-ATPase; alpha-A catalytic polypeptide; K-ATPase alpha-1 subunit; K-ATPase catalytic subunit a; ATP1A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of human ATP1A1. No significant cross-reactivity or interference between human ATP1A1 and analogues was observed.
Sequence Length	1023
Samples	Serum, plasma, tissue homogenates, Cell lysates
Assay Type	Sandwich
Detection Range	15.6 pg/ml -1000 pg/ml.
Sensitivity	The minimum detectable dose of human ATP1A1 is typically less than 3.9 pg/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP1A1 elisa kit	Principle of the assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for ATP1A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ATP1A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ATP1A1 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ATP1A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21361181
NCBI GeneID	476
NCBI Accession #	NP_000692.2
NCBI GenBank Nucleotide #	NM_000701.7
UniProt Accession #	P05023; Q16689; Q6LDM4; Q9UCN1; Q9UJ20; Q9UJ21; B2RBR6; B7Z2T5; B7Z3U6; F5H3A1
Molecular Weight	112,896 Da
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit alpha-1 isoform a
NCBI Official Synonym Full Names	ATPase, Na+/K+ transporting, alpha 1 polypeptide
NCBI Official Symbol	ATP1A1
NCBI Protein Information	sodium/potassium-transporting ATPase subunit alpha-1; sodium pump 1; Na+/K+ ATPase 1; Na,K-ATPase alpha-1 subunit; sodium pump subunit alpha-1; Na+, K+ ATPase alpha subunit; Na(+)/K(+) ATPase alpha-1 subunit; Na, K-ATPase, alpha-A catalytic polypeptide; sodium-potassium-ATPase, alpha 1 polypeptide; Na,K-ATPase catalytic subunit alpha-A protein; sodium-potassium ATPase catalytic subunit alpha-1
UniProt Protein Name	Sodium/potassium-transporting ATPase subunit alpha-1
UniProt Gene Name	ATP1A1
UniProt Synonym Gene Names	Na(+)/K(+) ATPase alpha-1 subunit
UniProt Entry Name	AT1A1_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/atp1a1-human-elisa-kits/atpase-na-k-transporting-alpha-1-polypeptide/112425>