

Human Sodium/potassium transporting ATPase subunit beta 1 (ATP1B1) ELISA Kit | ATP1B1 elisa kit

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CATALOG #
AAA245443

REACTIVITY
Human

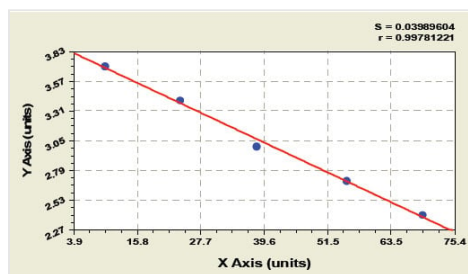
PRODUCT SYNONYMS

Sodium/potassium transporting ATPase subunit beta 1 (ATP1B1); Human Sodium/potassium transporting ATPase subunit beta 1 (ATP1B1) ELISA Kit; Human Sodium/potassium transporting ATPase subunit b 1 (ATP1B1) ELISA Kit; ATP1B1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	250-5000pg/mL
Sensitivity	1.0pg/mL
Intended Uses	This ATP1beta1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ATP1beta1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP1B1 elisa kit

Principle of the assay: ATP1beta1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ATP1beta1 antibody and an ATP1beta1-HRP conjugate. The assay sample and buffer are incubated together with ATP1beta1-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 ATP1beta1 concentration since ATP1beta1 from samples and ATP1beta1-HRP conjugate compete for the anti-ATP1beta1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ATP1beta1 from the sample, fewer sites are left to bind ATP1beta1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ATP1beta1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502277
NCBI GeneID	481
NCBI Accession #	NP_001668.1
NCBI GenBank Nucleotide #	NM_001677.3
Molecular Weight	34,893 Da
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit beta-1
NCBI Official Synonym Full Names	ATPase, Na+/K+ transporting, beta 1 polypeptide
NCBI Official Symbol	ATP1B1
NCBI Official Synonym Symbols	ATP1B
NCBI Protein Information	sodium/potassium-transporting ATPase subunit beta-1; adenosinetriphosphatase; sodium pump subunit beta-1; Na, K-ATPase beta-1 polypeptide; Beta 1-subunit of Na(+),K(+)-ATPase; sodium/potassium-dependent ATPase beta-1 subunit; sodium/potassium-transporting ATPase beta-1 chain; sodium-potassium ATPase subunit beta 1 (non-catalytic)
UniProt Protein Name	Sodium/potassium-transporting ATPase subunit beta-1
UniProt Gene Name	ATP1B1
UniProt Synonym Gene Names	ATP1B
UniProt Entry Name	AT1B1_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.