

Human GTP:AMP Phosphotransferase, Mitochondrial (AK3) ELISA Kit | AK3 elisa kit

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CATALOG #
AAA330847

REACTIVITY
Human

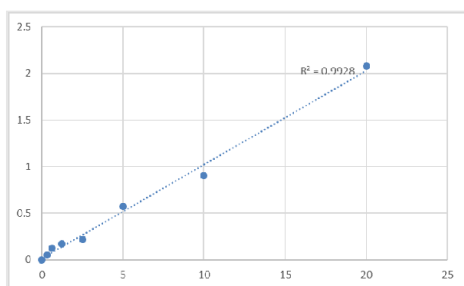
PRODUCT SYNONYMS

GTP:AMP Phosphotransferase; Mitochondrial (AK3); Human GTP:AMP Phosphotransferase; Mitochondrial (AK3) ELISA Kit; RP11-6J24.4; AK3L1; AK6; AKL3L; AKL3L1; FIX; adenylate kinase 3 alpha like; adenylate kinase 3 like 1; adenylate kinase 6; AK3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human GTP:AMP phosphotransferase, mitochondrial (AK3) ELISA Kit has high sensitivity and excellent specificity for detection of Human AK3. No significant cross-reactivity or interference between Human AK3 and analogues was observed.
Sequence Length	227
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human GTP:AMP phosphotransferase, mitochondrial (AK3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for AK3 elisa kit	Description: This Human GTP:AMP phosphotransferase, mitochondrial (AK3) ELISA Kit employs a two-site sandwich ELISA to quantitate AK3 in samples. An antibody specific for AK3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any AK3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AK3 is added to the wells. After washing, Streptavidin 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 AK3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The deduced 227-amino acid protein has a calculated molecular mass of 25.6 kD. AK3 shares 57.4% amino acid identity with AK4 (AK3L1). It shares 75%, 90%, and 91% amino acid identity with bovine, rat, and mouse AK3, respectively. Northern blot analysis detected a 3.2-kb transcript in all tissues examined. Expression was highest in heart, liver, and skeletal muscle, moderate in kidney and pancreas, and weak in brain, placenta, and lung. Transcripts of 5, 1.8, and 1.35 kb were detected in heart, liver, and pancreas. Western blot analysis detected AK3 at an apparent molecular mass of 28 kD in all tissues examined. Subcellular fractionation of mouse liver and kidney detected Ak3 in the mitochondrial fraction. Human embryonic kidney cells had endogenous phosphotransferase activity, which increased following transfection of AK3 cDNA.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	19923437
NCBI GeneID	50808
NCBI Accession #	NP_057366
NCBI GenBank Nucleotide #	NP_057366.2
UniProt Accession #	Q9UIJ7
NCBI Official Full Name	GTP:AMP phosphotransferase AK3, mitochondrial isoform a
NCBI Official Synonym Full Names	adenylate kinase 3
NCBI Official Symbol	AK3
NCBI Official Synonym Symbols	AK6; FIX; AK3L1; AKL3L; AKL3L1
NCBI Protein Information	GTP:AMP phosphotransferase AK3, mitochondrial
UniProt Protein Name	GTP:AMP phosphotransferase AK3, mitochondrial
UniProt Gene Name	AK3
UniProt Synonym Gene Names	AK 3

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/gtpamp-phosphotransferase-mitochondrial-ak3/330847>