

Human Adenylate kinase 2, mitochondrial (AK2) ELISA Kit | AK2 elisa kit

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CATALOG #
AAA245015

REACTIVITY
Human

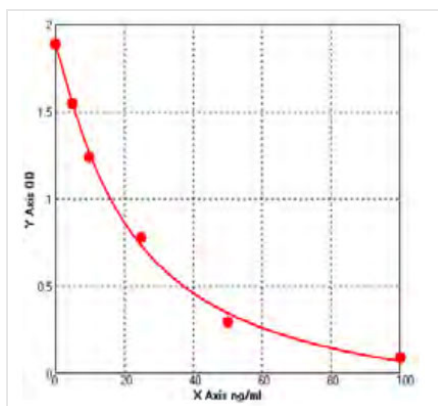
PRODUCT SYNONYMS

Adenylate kinase 2; mitochondrial (AK2); Human Adenylate kinase 2; mitochondrial (AK2) ELISA Kit; AK2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of AK2. No significant cross-reactivity or interference between AK2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between AK2 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AK2 elisa kit	Principle of the Assay: AK2 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-AK2 antibody and an AK2-HRP conjugate. The assay sample and buffer are incubated together with AK2-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 AK2 concentration since AK2 from samples and AK2-HRP conjugate compete for the anti-AK2 antibody binding site. Since the number of sites is limited, as more sites are occupied by AK2 from the sample, fewer sites are left to bind AK2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AK2 concentration in each sample is interpolated from this standard curve. Intended Uses: This AK2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human AK2. This ELISA kit for research use only, not for therapeutic or test applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1708596
NCBI GeneID	204
Molecular Weight	21,767 Da
NCBI Official Full Name	Adenylate kinase 2, mitochondrial
NCBI Official Synonym Full Names	adenylate kinase 2
NCBI Official Symbol	AK2
NCBI Official Synonym Symbols	ADK2; AK 2
NCBI Protein Information	adenylate kinase 2, mitochondrial; ATP:AMP phosphotransferase; ATP-AMP transphosphorylase 2; adenylate monophosphate kinase; adenylate kinase isoenzyme 2, mitochondrial
UniProt Protein Name	Adenylate kinase 2, mitochondrial
UniProt Gene Name	AK2
UniProt Synonym Gene Names	ADK2; AK 2
UniProt Entry Name	KAD2_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.