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# Datasheet for ABIN4993304 Adenylate Kinase 1 ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	Adenylate Kinase 1 (AK1)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.781-50 mU/mL
Minimum Detection Limit:	0.781 mU/mL
Application:	ELISA

### Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of AK1 in Mouse serum, plasma and other biological fluids
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes natural and recombinantMouseAK1. No significant cross-reactivity or interference between MouseAK1 and analogues was observed. Note: Limited by existing techniques, cross reaction may still exist, as it is impossible for us to complete the cross-reactivity detection between MouseAK1 and all the analogues.
Sensitivity:	0.469 mU/mL
Components:	Micro ELISA Plate Reference Standard

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#### Product Details

	Concentrated Biotinylated Detection Ab
	Concentrated HRP Conjugate
	Reference Standard & Sample Diluent
	Biotinylated Detection Ab Diluent
	HRP Conjugate Diluent
	Concentrated Wash Buffer (25×)
	Substrate Reagent
	Stop Solutio
	Plate Sealer
	Product Description
	Certificate of Analysis
Material not included:	Microplate reader with 450nm wavelength filter
	High-precision transferpettor, EP tubes and disposable pipette tips
	37°C Incubator
	Deionized or distilled water
	Absorbent paper
	Loading slot for Wash Buffer

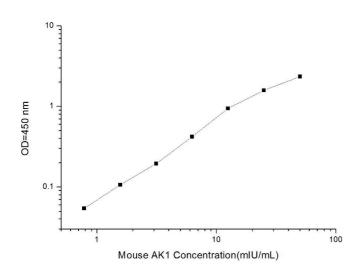
## Target Details

Target:	Adenylate Kinase 1 (AK1)
Abstract:	AK1 Products
Pathways:	Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process
Application Details	
Comment:	Information on standard material:
	The formulation of the standard is 0.01 M PBS. The standard contains additives (1 $\%$ BSA).
	Information on reagents:
	Reagents include 1 M SO <sub>2</sub> . Azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous
	materials are not used.
	Information on antibodies:
	The provided antibodies and their host vary in different kits. All antibodies are affinity purified

	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 by adding two standard deviations to the mean optical density value of twenty zero standard replicates and
	calculating the corresponding concentration.
Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit
	has been pre-coated with an antibody specific to AK1. Standards or samples are added to the
	appropriate micro ELISA plate wells and combined with the specific antibody. Then a
	biotinylated detection antibody specific for AK1and Avidin-Horseradish Peroxidase (HRP)
	conjugate is added to each micro plate well successively and incubated. Free components are
	washed away. The substrate solution is added to each well. Only those wells that contain AK1,
	biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-
	substrate reaction is terminated by the addition of a sulphuric acid solution and the color turns
	yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm
	$\pm$ 2 nm. The OD value is proportional to the concentration of AK1.You can calculate the
	concentration of AK1 in the samples by comparing the OD of the samples to the standard curve.
	6th Edition, revised in June, 2015 www.elabscience.com 4
Restrictions:	For Research Use only
Handling	
Handling Advice:	All the reagents in the kit should be stored according to the labels on vials. Unused wells should
	be returned to the foil pouch with the desiccant pack and resealed along entire edge of zip-seal.
	Substrate Reagent shouldn't be kept at -20 °C (Check!). Exposure of reagents to strong light
	should be avoided in the process of incubation and storage. All the taps of reagents should be
	tightened to prevent evaporation and microbial contamination. If not to store reagents
	according to above suggestions, erroneous results may occur.
Storage:	4 °C/-20 °C
Storage Comment:	The unopened kit can be stored at 4°C for 1 month. If the kit is not used within 1 month,
	store the items separately according to the conditions since the kit is received.

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#### ELISA

Image 1. Typical standard curve

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