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AKT2 ELISA Kit





Go to i roduct page

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Quantity:	96 tests
Target:	AKT2
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.312 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.312 ng/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of PKBb
	in mouse serum, plasma, tissue homogenates and other biological fluids.
Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of this index.
Sensitivity:	0.122 ng/mL
Components:	Pre-coated, ready to use 96-well strip plate
	Standard (freeze dried)
	Standard Diluent
	Detection Reagent A
	Detection Reagent B

Product Details

- · Assay Diluent A
- · Assay Diluent B
- TMB
- · Stop Solution
- Wash Buffer (30X)
- · Plate sealer for 96 wells
- · Instruction manual

Material not included:

- 1. Microplate reader with 450 ± 10nm filter.
- 2. Precision single or multi-channel pipettes and disposable tips.
- 3. Eppendorf Tubes for diluting samples.
- 4. Deionized or distilled water.
- 5. Absorbent paper for blotting the microtiter plate.
- 6. Container for Wash Solution.

Target Details

Target:	AKT2
Alternative Name:	Protein Kinase B Beta (PKBb) (AKT2 Products)
Background:	Alternative name: AKT2, PKBBETA, PRKB-B, RAC-BETA, RAC-Beta Serine/Threonine-Protein Kinase, V-Akt Murine Thymoma Viral Oncogene Homolog 2
Pathways:	PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, TLR Signaling, Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Hepatitis C, VEGF Signaling

Application Details

Sample Volume:	100 μL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards
	2. Add 100µL standard or sample to each well. Incubate 2 hours at 37°C
	3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37°C
	4. Aspirate and wash 3 times
	5. Add 100µL prepared Detection Reagent B. Incubate 1 hour at 37°C
	6. Aspirate and wash 5 times
	7. Add 90µL Substrate Solution. Incubate 15-25 minutes at 37°C
	8. Add 50µL Stop Solution. Read at 450nm immediately.

Application Details

Application Details	
Assay Procedure:	The microtiter plate provided in this kit has been pre-coated with an antibody specific to the index. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to the index. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain the index, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of the index in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Precision:	 Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level the index were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level the index were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-assay: CV&lt10% Inter-assay: CV&lt12%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.
Handling Advice:	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage conditions. Note: To minimize unnecessary influences on the performance, operation procedures and lab conditions, especially room temperature, air humidity and incubator temperatures should be strictly regulated. It is also strongly suggested that the whole assay is performed by the same experimenter from the beginning to the end.
Storage:	4 °C,-20 °C
Storage Comment:	The Assay Plate, Standard, Detection Reagent A and Detection Reagent B should be stored at -

20°C upon being received. After receiving the kit , Substrate should be always stored at

4°C.Other reagents are kept according to the labels on vials. But for long term storage, please

keep the whole kit at -20°C. The unused strips should be kept in a sealed bag with the desiccant

provided to minimize exposure to damp air. The test kit may be used throughout the expiration

date of the kit (six months from the date of manufacture). Opened test kits will remain stable

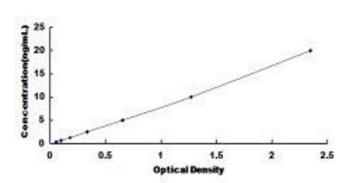
Handling

until the expiring date	shown.	provided it is	s stored as	prescribed above
and the explining date		, provided it it	J Otol Ca ao	predoribed above.

Expiry Date:

12 months

Images



ELISA

Image 1. Typical Standard Curve