

Human Protein Kinase B Alpha (PKBa) ELISA Kit | PKBa elisa kit

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CATALOG #
AAA136221

REACTIVITY
Human

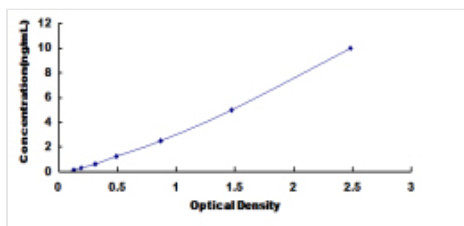
PRODUCT SYNONYMS

Protein Kinase B Alpha (PKBa); Human Protein Kinase B Alpha (PKBa) ELISA Kit; AKT1; AKT; PKB-A; Proto-oncogene c-Akt; RAC-Alpha Serine/Threonine-Protein Kinase; V-akt Murine Thymoma Viral Oncogene Homolog 1; PKBa elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Protein Kinase B Alpha (PKBa). No significant cross-reactivity or interference between Protein Kinase B Alpha (PKBa) and analogues was observed.
Sequence Length	480
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.059ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Protein Kinase B Alpha (PKBa) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Protein Kinase B Alpha (PKBa) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of 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 condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PKBa elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Protein Kinase B Alpha (PKBa). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Protein Kinase B Alpha (PKBa). 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 Protein Kinase B Alpha (PKBa), 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 Protein Kinase B Alpha (PKBa) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for PKBa elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	22653384
NCBI GeneID	11651
UniProt Accession #	P31750; Q62274; Q6GSA6
Molecular Weight	55,707 Da
NCBI Official Full Name	protein kinase B-alpha
NCBI Official Synonym Full Names	thymoma viral proto-oncogene 1
NCBI Official Symbol	Akt1
NCBI Official Synonym Symbols	Akt; PKB; Rac; PKB/Akt; PKBalpha
NCBI Protein Information	RAC-alpha serine/threonine-protein kinase
UniProt Protein Name	RAC-alpha serine/threonine-protein kinase
UniProt Gene Name	Akt1
UniProt Synonym Gene Names	Akt; Rac; PKB; PKB alpha
UniProt Entry Name	AKT1_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/protein-kinase-b-alpha-pkba/136221>