

Human RAC-beta Serine/Threonine-Protein Kinase (AKT2) ELISA Kit | AKT2 elisa kit

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CATALOG #
AAA330852

REACTIVITY
Human

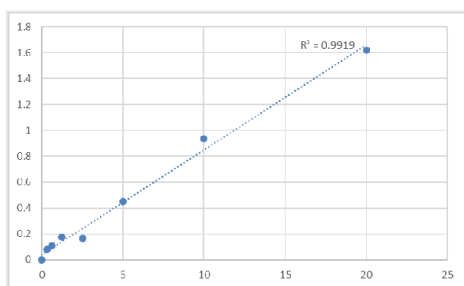
PRODUCT SYNONYMS

RAC-beta Serine/Threonine-Protein Kinase (AKT2); Human RAC-beta Serine/Threonine-Protein Kinase (AKT2) ELISA Kit; AKT2; PKBB; PKBBETA; PRKBB; RAC-BETA; AKT2 kinase; Murine thymoma viral (v-akt) homolog-2; rac protein kinase beta; AKT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human RAC-beta serine/threonine-protein kinase (AKT2) ELISA Kit has high sensitivity and excellent specificity for detection of Human AKT2. No significant cross-reactivity or interference between Human AKT2 and analogues was observed.
Sequence Length	481
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 RAC-beta serine/threonine-protein kinase (AKT2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for AKT2 elisa kit	Description: This Human RAC-beta serine/threonine-protein kinase (AKT2) ELISA Kit employs a two-site sandwich ELISA to quantitate AKT2 in samples. An antibody specific for AKT2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any AKT2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AKT2 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 AKT2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: AKT2 is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phosphorylating several known proteins. Mice lacking Akt2 have a normal body mass, but display a profound diabetic phenotype, indicating that Akt2 plays a key role in signal transduction downstream of the insulin receptor. Mice lacking Akt2 show worse outcome in breast cancer initiated by the large T antigen as well as the neu oncogene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502023
NCBI GeneID	208
NCBI Accession #	NP_001617.1
NCBI GenBank Nucleotide #	NP_001617.1
UniProt Accession #	P31751
NCBI Official Full Name	RAC-beta serine/threonine-protein kinase isoform 1
NCBI Official Synonym Full Names	AKT serine/threonine kinase 2
NCBI Official Symbol	AKT2
NCBI Official Synonym Symbols	PKBB; PRKBB; HIHGHH; PKBBETA; RAC-BETA
NCBI Protein Information	RAC-beta serine/threonine-protein kinase
UniProt Protein Name	RAC-beta serine/threonine-protein kinase
UniProt Gene Name	AKT2
UniProt Synonym Gene Names	PKB beta
UniProt Entry Name	AKT2_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.