Human CAMP-Dependent Protein Kinase Type I-alpha Regulatory Subunit (PRKAR1A) ELISA Kit | PRKAR1A elisa kit

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CATALOG #	REACTIVITY
AAA331332	**Human**

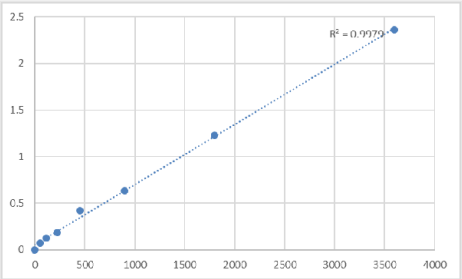
PRODUCT SYNONYMS

CAMP-Dependent Protein Kinase Type I-alpha Regulatory Subunit (PRKAR1A); Human CAMP-Dependent Protein Kinase Type I-alpha Regulatory Subunit (PRKAR1A) ELISA Kit; PRKAR1A; CAR; CNC; CNC1; DKFZp779L0468; MGC17251; PKR1; PPNAD1; PRKAR1; TSE1; cAMP-dependent protein kinase regulatory subunit RIalpha; cAMP-dependent protein kinase type I-alpha regulatory chain; cAMP-depende; PRKAR1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human CAMP-dependent protein kinase type I-alpha regulatory subunit (PRKAR1A) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRKAR1A. No significant cross-reactivity or interference between Human PRKAR1A and analogues was observed.
Sequence Length	381
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 CAMP-dependent protein kinase type I-alpha regulatory subunit (PRKAR1A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRKAR1A elisa kit	Description: This Human CAMP-dependent protein kinase type I-alpha regulatory subunit (PRKAR1A) ELISA Kit employs a two-site sandwich ELISA to quantitate PRKAR1A in samples. An antibody specific for PRKAR1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRKAR1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKAR1A 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 PRKAR1A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase A (PKA), which transduces the signal through phosphorylation of different target proteins. Four different regulatory subunits and three catalytic subunits of PKA have been identified in humans. TSE1 is one of the regulatory subunits. This protein was found to be a tissue-specific extinguisher that down-regulates the expression of seven liver genes in hepatoma x fibroblast hybrids. Functional null mutations in this gene cause Carney complex (CNC), an autosomal dominant multiple neoplasia syndrome. This gene can fuse to the RET protooncogene by gene rearrangement and form the thyroid tumor-specific chimeric oncogene known as PTC2.

NCBI AND UNIPROT INFORMATION

NCBI GI #	443497964
NCBI GeneID	5573
NCBI Accession #	NP_001263218.1
NCBI GenBank Nucleotide #	NP_001263218.1
UniProt Accession #	P10644
NCBI Official Full Name	cAMP-dependent protein kinase type I-alpha regulatory subunit isoform a
NCBI Official Synonym Full Names	protein kinase cAMP-dependent type I regulatory subunit alpha
NCBI Official Symbol	PRKAR1A
NCBI Official Synonym Symbols	CAR; CNC; CNC1; PKR1; TSE1; ADOHR; PPNAD1; PRKAR1; ACRDYS1
NCBI Protein Information	cAMP-dependent protein kinase type I-alpha regulatory subunit
UniProt Protein Name	cAMP-dependent protein kinase type I-alpha regulatory subunit
UniProt Gene Name	**PRKAR1A**
UniProt Synonym Gene Names	PKR1; PRKAR1; TSE1; TSE1
UniProt Entry Name	KAP0_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.

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