Human cAMP dependent protein kinase type I Alpha regulatory subunit (PRKAR1A) ELISA Kit | PRKAR1A elisa kit

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CATALOG #	REACTIVITY
AAA245294	**Human**

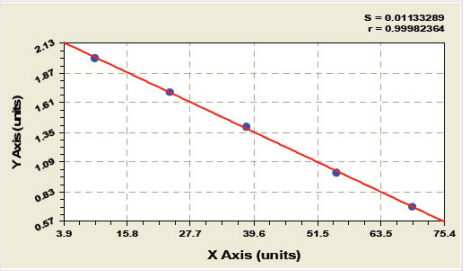
PRODUCT SYNONYMS

cAMP dependent protein kinase type I Alpha regulatory subunit (PRKAR1A); Human cAMP dependent protein kinase type I Alpha regulatory subunit (PRKAR1A) ELISA Kit; PRKAR1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This PRKAR1A ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human PRKAR1A. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRKAR1A elisa kit	Principle of the assay: PRKAR1A ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-PRKAR1A antibody and an PRKAR1A-HRP conjugate. The assay sample and buffer are incubated together with PRKAR1A-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the PRKAR1A concentration since PRKAR1A from samples and PRKAR1A-HRP conjugate compete for the anti-PRKAR1A antibody binding site. Since the number of sites is limited, as more sites are occupied by PRKAR1A from the sample, fewer sites are left to bind PRKAR1A-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PRKAR1A concentration in each sample is interpolated from this standard curve.

Product Categories/Family for PRKAR1A elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	125193
NCBI GeneID	5573
Molecular Weight	38,003 Da
NCBI Official Full Name	cAMP-dependent protein kinase type I-alpha regulatory subunit
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, regulatory, type I, 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; Carney complex type 1; tissue-specific extinguisher 1; protein kinase A type 1a regulatory subunit; cAMP-dependent protein kinase regulatory subunit RIalpha; cAMP-dependent protein kinase type I-alpha regulatory chain
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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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/camp-dependent-protein-kinase-type-i-alpha-regulatory-subunit-prkar1a/245294