

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

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

CATALOG #
AAA245294

REACTIVITY
Human

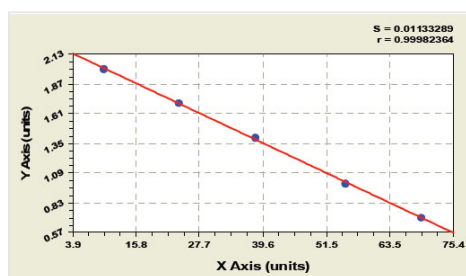
PRODUCT SYNONYMS

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.

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 R1alpha; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/camp-dependent-protein-kinase-type-i-alpha-regulatory-subunit-prkar1a/245294>