

Human cGMP dependent protein kinase 1 (PRKG1) ELISA Kit | PRKG1 elisa kit

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CATALOG #
AAA245212

REACTIVITY
Human

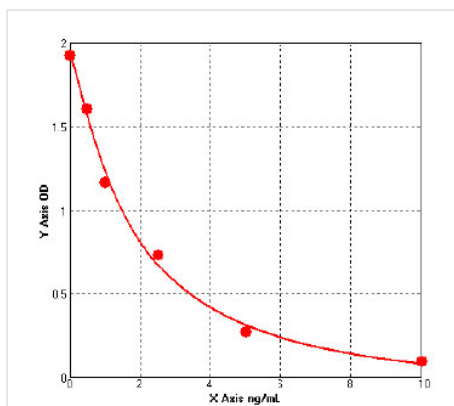
PRODUCT SYNONYMS

cGMP dependent protein kinase 1 (PRKG1); Human cGMP dependent protein kinase 1 (PRKG1) ELISA Kit; PRKG1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PRKG1. No significant cross-reactivity or interference between PRKG1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between PRKG1 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRKG1 elisa kit	Principle of the Assay: PRKG1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-PRKG1 antibody and an PRKG1-HRP conjugate. The assay sample and buffer are incubated together with PRKG1-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 PRKG1 concentration since PRKG1 from samples and PRKG1-HRP conjugate compete for the anti-PRKG1 antibody binding site. Since the number of sites is limited, as more sites are occupied by PRKG1 from the sample, fewer sites are left to bind PRKG1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PRKG1 concentration in each sample is interpolated from this standard curve. Intended Uses: This PRKG1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human PRKG1. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for PRKG1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835242
NCBI GeneID	5592
NCBI Accession #	NP_006249.1
NCBI GenBank Nucleotide #	NM_006258.3
Molecular Weight	44,185 Da
NCBI Official Full Name	cGMP-dependent protein kinase 1 isoform 2
NCBI Official Synonym Full Names	protein kinase, cGMP-dependent, type I
NCBI Official Symbol	PRKG1
NCBI Official Synonym Symbols	1; PKG; cGK; AAT8; cGK1; cGKI; cGK 1; PRKG1B; PRKGR1B; cGKI-BETA; cGKI-alpha
NCBI Protein Information	cGMP-dependent protein kinase 1; protein kinase, cGMP-dependent, regulatory, type I, beta
UniProt Protein Name	cGMP-dependent protein kinase 1
UniProt Gene Name	PRKG1
UniProt Synonym Gene Names	PRKG1B; PRKGR1A; PRKGR1B; cGK 1; cGK1; cGKI
UniProt Entry Name	KGP1_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/cgmp-dependent-protein-kinase-1-prkg1/245212>