

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

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CATALOG #
AAA245709

REACTIVITY
Rat

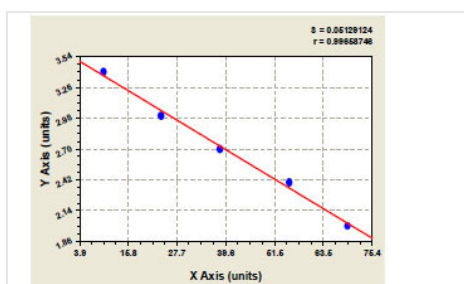
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	1.0 pg/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

Intended Uses: This PRKG1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat PRKG1. This ELISA kit for research use only!

Principle of the Assay: PRKG1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal 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.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cgmp-dependent-protein-kinase-1-prkg1/245709>