

Human Protein Kinase, cGMP Dependent Type II (PRKG2) ELISA Kit | PRKG2 elisa kit

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CATALOG #
AAA140806

REACTIVITY
Human

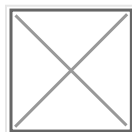
PRODUCT SYNONYMS

Protein Kinase; cGMP Dependent Type II (PRKG2); Human Protein Kinase; cGMP Dependent Type II (PRKG2) ELISA Kit; PRKGR2; cGKII; cGMP-dependent protein kinase 2; PRKG2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Protein Kinase, cGMP Dependent Type II (PRKG2). No significant cross-reactivity or interference between Protein Kinase, cGMP Dependent Type II (PRKG2) and analogues was observed.
Sequence Length	762
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.114ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Protein Kinase, cGMP Dependent Type II (PRKG2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Protein Kinase, cGMP Dependent Type II (PRKG2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRKG2 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Protein Kinase, cGMP Dependent Type II (PRKG2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Protein Kinase, cGMP Dependent Type II (PRKG2). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Protein Kinase, cGMP Dependent Type II (PRKG2), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Protein Kinase, cGMP Dependent Type II (PRKG2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for PRKG2 elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	119626272
NCBI GeneID	5593
Molecular Weight	84,398 Da
NCBI Official Full Name	protein kinase, cGMP-dependent, type II
NCBI Official Synonym Full Names	protein kinase, cGMP-dependent, type II
NCBI Official Symbol	PRKG2
NCBI Official Synonym Symbols	cGK2; cGKII; PRKGR2
NCBI Protein Information	cGMP-dependent protein kinase 2
UniProt Protein Name	cGMP-dependent protein kinase 2
UniProt Gene Name	PRKG2
UniProt Synonym Gene Names	PRKGR2; cGK 2; cGK2; cGKII
UniProt Entry Name	KGP2_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/protein-kinase-cgmp-dependent-type-ii-prkg2/140806>