

Human CAMP-Dependent Protein Kinase Catalytic Subunit gamma (PRKACG) ELISA Kit | PRKACG elisa kit

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CATALOG #
AAA331333

REACTIVITY
Human

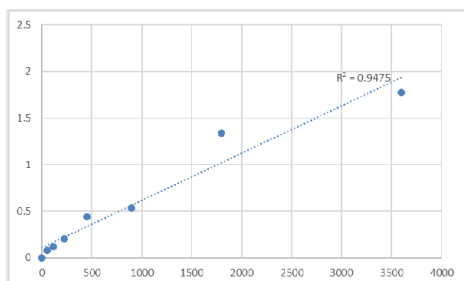
PRODUCT SYNONYMS

CAMP-Dependent Protein Kinase Catalytic Subunit gamma (PRKACG); Human CAMP-Dependent Protein Kinase Catalytic Subunit gamma (PRKACG) ELISA Kit; PRKACG; KAPG; PKACg; PKA C-gamma; serine(threonine) protein kinase; PRKACG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human CAMP-dependent protein kinase catalytic subunit gamma (PRKACG) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRKACG. No significant cross-reactivity or interference between Human PRKACG and analogues was observed.
Sequence Length	351
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human CAMP-dependent protein kinase catalytic subunit gamma (PRKACG) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRKACG elisa kit	Description: This Human CAMP-dependent protein kinase catalytic subunit gamma (PRKACG) ELISA Kit employs a two-site sandwich ELISA to quantitate PRKACG in samples. An antibody specific for PRKACG has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRKACG present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKACG is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRKACG bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Cyclic AMP-dependent protein kinase (PKA) consists of two catalytic subunits and a regulatory subunit dimer. This gene encodes the gamma form of its catalytic subunit. The gene is intronless and is thought to be a retrotransposon derived from the gene for the alpha form of the PKA catalytic subunit. The PRKACG gene is intronless, contains remnants of a poly(A) tail, is flanked by direct repeats, and is colinear with the PRKACA gene. Thus, the authors concluded that the PRKACG gene is a PRKACA-derived retroposon. Northern blot analysis detected PRKACG expression in fractionated germ cells of human testes. Whereas at the amino acid level C-alpha and C-beta showed 93% homology, C-gamma showed only about 80% homology to both C-alpha and C-beta.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15619015
NCBI GeneID	5568
NCBI Accession #	NP_002723.2
NCBI GenBank Nucleotide #	NP_002723.2
UniProt Accession #	P22612
NCBI Official Full Name	cAMP-dependent protein kinase catalytic subunit gamma
NCBI Official Synonym Full Names	protein kinase cAMP-activated catalytic subunit gamma
NCBI Official Symbol	PRKACG
NCBI Official Synonym Symbols	KAPG; PKACg; BDPLT19
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit gamma
UniProt Protein Name	cAMP-dependent protein kinase catalytic subunit gamma
UniProt Gene Name	PRKACG
UniProt Synonym Gene Names	PKA C-gamma
UniProt Entry Name	KAPCG_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-catalytic-subunit-gamma-prkacg/331333>