

Human CAMP-Dependent Protein Kinase Catalytic Subunit alpha (PRKACA) ELISA Kit | PRKACA elisa kit

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CATALOG #
AAA331335

REACTIVITY
Human

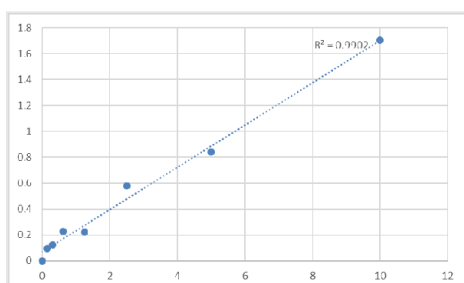
PRODUCT SYNONYMS

CAMP-Dependent Protein Kinase Catalytic Subunit alpha (PRKACA); Human CAMP-Dependent Protein Kinase Catalytic Subunit alpha (PRKACA) ELISA Kit; PRKACA; MGC102831; MGC48865; PKACA; PKA C-alpha; cAMP-dependent protein kinase catalytic subunit alpha; isoform 1; protein kinase A catalytic subunit; PRKACA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human CAMP-dependent protein kinase catalytic subunit alpha (PRKACA) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRKACA. No significant cross-reactivity or interference between Human PRKACA 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 alpha (PRKACA) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRKACA elisa kit	Description: This Human CAMP-dependent protein kinase catalytic subunit alpha (PRKACA) ELISA Kit employs a two-site sandwich ELISA to quantitate PRKACA in samples. An antibody specific for PRKACA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRKACA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKACA 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 PRKACA bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the AMP-activated protein kinase (AMPK), which transduces the signal through phosphorylation of different target proteins. The inactive holoenzyme of AMPK is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits of AMPK have been identified in humans. PRKACA is a member of the Ser/Thr protein kinase family and is a catalytic subunit of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506055
NCBI GeneID	5566
NCBI Accession #	NP_002721.1
NCBI GenBank Nucleotide #	NP_002721.1
UniProt Accession #	P17612
NCBI Official Full Name	cAMP-dependent protein kinase catalytic subunit alpha isoform Calpha1
NCBI Official Synonym Full Names	protein kinase cAMP-activated catalytic subunit alpha
NCBI Official Symbol	PRKACA
NCBI Official Synonym Symbols	PKACA; PPNAD4
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit alpha
UniProt Protein Name	cAMP-dependent protein kinase catalytic subunit alpha
UniProt Gene Name	PRKACA
UniProt Synonym Gene Names	PKACA; PKA C-alpha
UniProt Entry Name	KAPCA_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/human-elisa-kits/camp-dependent-protein-kinase-catalytic-subunit-alpha-prkaca/331335>