

Human CAMP-Dependent Protein Kinase Catalytic Subunit beta (PRKACB) ELISA Kit | PRKACB elisa kit

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CATALOG #
AAA331334

REACTIVITY
Human

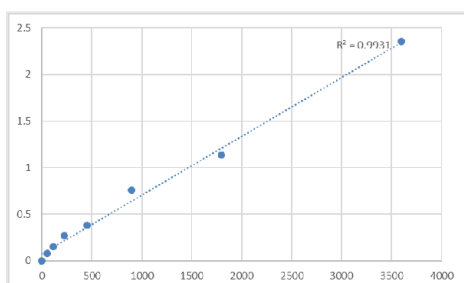
PRODUCT SYNONYMS

CAMP-Dependent Protein Kinase Catalytic Subunit beta (PRKACB); Human CAMP-Dependent Protein Kinase Catalytic Subunit beta (PRKACB) ELISA Kit; PRKACB; RP11-82H13.1; DKFZp781I2452; MGC41879; MGC9320; PKACB; PKA C-beta; cAMP-dependent protein kinase catalytic beta subunit isoform 4ab; cAMP-dependent protein kinase catalytic subunit beta; protein kinase; PRKACB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human CAMP-dependent protein kinase catalytic subunit beta (PRKACB) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRKACB. No significant cross-reactivity or interference between Human PRKACB and analogues was observed.
Sequence Length	358
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 beta (PRKACB) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRKACB elisa kit	Description: This Human CAMP-dependent protein kinase catalytic subunit beta (PRKACB) ELISA Kit employs a two-site sandwich ELISA to quantitate PRKACB in samples. An antibody specific for PRKACB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRKACB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKACB 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 PRKACB 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. PRKACB is a member of the Ser/Thr protein kinase family and is a catalytic subunit of AMPK. Three alternatively spliced transcript variants encoding distinct isoforms have been observed.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	338827753
NCBI GeneID	5567
NCBI Accession #	NP_001229786.1
NCBI GenBank Nucleotide #	NP_001229786.1
UniProt Accession #	P22694
NCBI Official Full Name	cAMP-dependent protein kinase catalytic subunit beta isoform 4
NCBI Official Synonym Full Names	protein kinase cAMP-activated catalytic subunit beta
NCBI Official Symbol	PRKACB
NCBI Official Synonym Symbols	PKACB; PKA C-beta
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit beta
UniProt Protein Name	cAMP-dependent protein kinase catalytic subunit beta
UniProt Gene Name	PRKACB
UniProt Synonym Gene Names	PKA C-beta
UniProt Entry Name	KAPCB_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-beta-prkachb/331334>