Human CAMP-Dependent Protein Kinase Type II-beta Regulatory Subunit (PRKAR2B) ELISA Kit | PRKAR2B elisa kit

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CATALOG #	REACTIVITY
AAA331330	**Human**

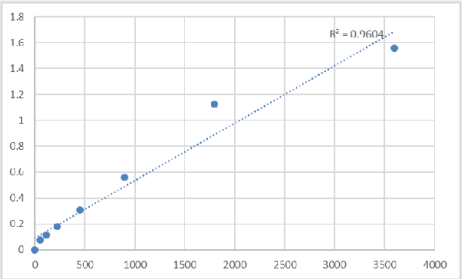
PRODUCT SYNONYMS

CAMP-Dependent Protein Kinase Type II-beta Regulatory Subunit (PRKAR2B); Human CAMP-Dependent Protein Kinase Type II-beta Regulatory Subunit (PRKAR2B) ELISA Kit; PRKAR2B; PRKAR2; RII-BETA; H_RG363E19.2; WUGSC:H_RG363E19.2; cAMP-dependent protein kinase type-beta regulatory chain; cAMP-dependent protein kinase; regulatory subunit beta 2; PRKAR2B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human CAMP-dependent protein kinase type II-beta regulatory subunit (PRKAR2B) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRKAR2B. No significant cross-reactivity or interference between Human PRKAR2B and analogues was observed.
Sequence Length	418
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 type II-beta regulatory subunit (PRKAR2B) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRKAR2B elisa kit	Description: This Human CAMP-dependent protein kinase type II-beta regulatory subunit (PRKAR2B) ELISA Kit employs a two-site sandwich ELISA to quantitate PRKAR2B in samples. An antibody specific for PRKAR2B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRKAR2B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKAR2B 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 PRKAR2B bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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. PRKAR2b is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. This subunit has been shown to interact with and suppress the transcriptional activity of the cAMP responsive element binding protein 1 (CREB1) in activated T cells. Knockout studies in mice suggest that this subunit may play an important role in regulating energy balance and adiposity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132585
NCBI GeneID	5577
NCBI Accession #	NP_002727.2
NCBI GenBank Nucleotide #	NP_002727.2
UniProt Accession #	P31323
NCBI Official Full Name	cAMP-dependent protein kinase type II-beta regulatory subunit
NCBI Official Synonym Full Names	protein kinase cAMP-dependent type II regulatory subunit beta
NCBI Official Symbol	PRKAR2B
NCBI Official Synonym Symbols	PRKAR2; RII-BETA
NCBI Protein Information	cAMP-dependent protein kinase type II-beta regulatory subunit
UniProt Protein Name	cAMP-dependent protein kinase type II-beta regulatory subunit
UniProt Gene Name	**PRKAR2B**
UniProt Entry Name	KAP3_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-type-ii-beta-regulatory-subunit-prkar2b/331330