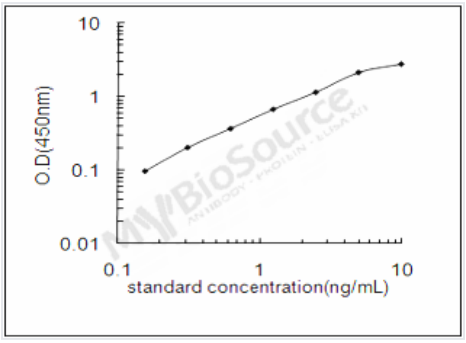
Cyclin-Dependent Kinase 16 (CDK16) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclin-dependent kinase 16 (CDK16), ELISA Kit
Full Product Name	Human Cyclin-dependent kinase 16 ELISA Kit
Product Gene Name	CDK16 elisa kit
Product Synonym Names	Cyclin-dependent kinase 16; Cell division protein kinase 16; PCTAIRE-motif protein kinase 1; Serine/threonine-protein kinase PCTAIRE-1; CDK16; PCTK1; 2.7.11.22; PCTK1
Species Reactivity	Human
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	56,375 Da
OMIM	311550
3D Structure	ModBase 3D Structure for Q00536
Related Product Information for CDK16 elisa kit	MBS289363 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin-dependent kinase 16 (CDK16) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CDK16. The ELISA analytical biochemical technique of the MBS289363 kit is based on CDK16 antibody-CDK16 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CDK16 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CDK16. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CDK16 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Typical Testing Data/Standard Curve (for reference only) of CDK16 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK16. It may not necessarily be applicable to this product.

NCBI GI #	281427158
NCBI GeneID	5127
NCBI Accession #	NP_001163931.1
UniProt Primary Accession #	Q00536

UniProt Secondary Accession #	A8K280; B7Z7C8; J3KN74; J3KQP7
UniProt Related Accession #	Q00536
GenBank Nucleotide #	NM_001170460.1
NCBI Official Full Name	cyclin-dependent kinase 16 isoform 3
NCBI Official Synonym Full Names	cyclin-dependent kinase 16
NCBI Official Symbol	CDK16
NCBI Official Synonym Symbols	PCTK1; PCTAIRE; PCTAIRE1; PCTGAIRE
UniProt Protein Name	Cyclin-dependent kinase 16
UniProt Synonym Protein Names	Cell division protein kinase 16; PCTAIRE-motif protein kinase 1; Serine/threonine-protein kinase PCTAIRE-1
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDK16
UniProt Synonym Gene Names	PCTAIRE1; PCTK1
UniProt Entry Name	CDK16_HUMAN
NCBI Protein Information	cyclin-dependent kinase 16
NCBI Summary for CDK16	The protein encoded by this gene belongs to the cdc2/cdkx subfamily of the ser/thr family of protein kinases. It may play a role in signal transduction cascades in terminally differentiated cells; in exocytosis; and in transport of secretory cargo from the endoplasmic reticulum. This gene is thought to escape X inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2009]
UniProt Comments for CDK16	CDK16: May play a role in signal transduction cascades in terminally differentiated cells. Found in a complex containing CABLES1, CDK17 and TDRD7. Interacts with YWHAH, YWHAQ and YWHAZ. Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Protein type: Kinase, protein; EC 2.7.11.22; Protein kinase, CMGC; Motility/polarity/chemotaxis; Cell cycle regulation; Protein kinase, Ser/Thr (non-receptor); CMGC group; CDK family; TAIRE subfamily; CDK/TAIRE subfamily Chromosomal Location of Human Ortholog: Xp11 Cellular Component: cell junction; cytoplasm; extrinsic to internal side of plasma membrane; microtubule cytoskeleton; neuron projection; plasma membrane; synaptic vesicle Molecular Function: ATP binding; cyclin-dependent protein kinase activity; protein binding; protein serine/threonine kinase activity Biological Process: exocytosis; growth hormone secretion; neurite development; protein amino acid phosphorylation; regulation of cell cycle; spermatogenesis
Research Articles on CDK16	**1.** Activation of PCTAIRE-1 is mediated through interaction with the phosphorylated form of cyclin Y in complex with 14-3-3.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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