Cyclin Dependent Kinase 11a (CDK11A) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Cyclin dependent kinase 11A (CDK11A), ELISA Kit
Full Product Name	Monkey Cyclin dependent kinase 11A ELISA Kit
Product Gene Name	CDK11A elisa kit
Species Reactivity	Monkey
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	50-1000pg/mL
Sensitivity	1.png/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	49,624 Da
OMIM	116951
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for CDK11A elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CDK11A elisa kit	MBS7205080 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin dependent kinase 11A (CDK11A) 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 CDK11A. The ELISA analytical biochemical technique of the MBS7205080 kit is based on CDK11A antibody-CDK11A antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CDK11A antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CDK11A. 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 CDK11A 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK11A. It may not necessarily be applicable to this product.

NCBI GI #	148763345
NCBI GeneID	728642
NCBI Accession #	NP_277071.2
UniProt Secondary Accession #	O95227; O95228; O96012; Q12821; Q12853; Q12854; Q2TAJ0; Q5QPR0; Q5QPR1; Q5QPR2; Q9UBC4
UniProt Related Accession #	Q9UQ88
GenBank Nucleotide #	NM_033529.2

NCBI Official Full Name	cyclin-dependent kinase 11A isoform 4
NCBI Official Synonym Full Names	cyclin-dependent kinase 11A
NCBI Official Symbol	CDK11A
NCBI Official Synonym Symbols	CDC2L2; CDC2L3; p58GTA; PITSLRE; CDK11-p46; CDK11-p58; CDK11-p110
UniProt Protein Name	Cyclin-dependent kinase 11A
UniProt Synonym Protein Names	Cell division cycle 2-like protein kinase 2; Cell division protein kinase 11A; Galactosyltransferase-associated protein kinase p58/GTA; PITSLRE serine/threonine-protein kinase CDC2L2
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDK11A
UniProt Synonym Gene Names	CDC2L2; CDC2L3; PITSLREB
UniProt Entry Name	CD11A_HUMAN
NCBI Protein Information	cyclin-dependent kinase 11A; PITSLRE B; PITSLRE protein kinase beta; cell division protein kinase 11A; cell division cycle 2-like protein kinase 2; PITSLRE serine/threonine-protein kinase CDC2L2; cell division cycle 2-like 2 (PITSLRE proteins); galactosyltransferase-associated protein kinase p58/GTA
NCBI Summary for CDK11A	This gene encodes a member of the p34Cdc2 protein kinase family. p34Cdc2 kinase family members are known to be essential for eukaryotic cell cycle control. This gene is in close proximity to CDC2L1, a nearly identical gene in the same chromosomal region. The gene loci including this gene, CDC2L1, as well as metalloprotease MMP21/22, consist of two identical, tandemly linked genomic regions, which are thought to be a part of the larger region that has been duplicated. This gene and CDC2L1 were shown to be deleted or altered frequently in neuroblastoma with amplified MYCN genes. The protein kinase encoded by this gene could be cleaved by caspases and was demonstrated to play roles in cell apoptosis. Many transcript variants encoding several different isoforms have been found for this gene, but the full-length nature of only two have been determined so far. [provided by RefSeq, Jul 2008]
UniProt Comments for CDK11A	CDK11A: Appears to play multiple roles in cell cycle progression, cytokinesis and apoptosis. The p110 isoforms have been suggested to be involved in pre-mRNA splicing, potentially by phosphorylating the splicing protein SFRS7. The p58 isoform may act as a negative regulator of normal cell cycle progression. The cleaved p110 isoform, p110C, binds to the serine/threonine kinase PAK1. The p58 isoform but not the p110 isoform or p110C interacts with CCND3. The p110 isoforms are found in large molecular weight complexes containing CCNL1 and SFRS7. The p58 isoform is specifically induced in G2/M phase of the cell cycle. Expressed ubiquitously. Some evidence of isoform-specific tissue distribution. Phosphorylation at Thr-436 or Tyr-437 inactivates the enzyme, while phosphorylation at Thr-583 activates it. Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, CMGC; EC 2.7.11.22; Protein kinase, Ser/Thr (non-receptor); Motility/polarity/chemotaxis; RNA processing; Kinase, protein; Cell cycle regulation; CMGC group; CDK family; PITSLRE subfamily Chromosomal Location of Human Ortholog: 1p36.33 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; cyclin-dependent protein kinase activity; ATP binding; protein kinase activity Biological Process: mitosis; regulation of transcription, DNA-dependent; regulation of cell cycle; apoptosis; regulation of cell growth; protein amino acid phosphorylation; regulation of mRNA processing
Research Articles on CDK11A	**1.** study identified p21 activated kinase 1 (PAK1) as a new CDK11(p58) substrate; mapped a new phosphorylation site of Ser174 on PAK1; results indicated PAK1 may serve as a downstream effector of CDK11(p58) during mitosis progression

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