

Human Cyclin Dependent Kinase 1 ELISA Kit | CDK1 elisa kit

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CATALOG #
AAA99703

REACTIVITY
Human

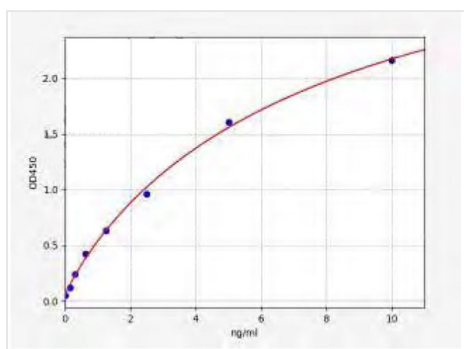
PRODUCT SYNONYMS

Cyclin Dependent Kinase 1; Human Cyclin Dependent Kinase 1 ELISA Kit; CDK1/CDC28A/cell cycle controller CDC2/Cell division control protein 2 homolog/Cell division protein kinase 1/cyclin-dependent kinase 1/G1 to S and G2 to M/p34 protein kinase/P34CDC2; CDK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize CDK1, no obvious cross reaction with other analogues
Sequence Length	297
Assay Type	Sandwich
Samples	Cell lysates, tissue homogenates and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CDK1 elisa kit	Background: Cyclin-dependent kinase 1 (CDK1) is a member of the family of cell cycle regulatory proteins involved in cell cycle maintenance. Cyclin-dependent kinase 1 (CDK1) is the major protein kinase that drives cells into mitosis. CDK1 is activated by binding to mitotic cyclins (mainly cyclin B1), which then phosphorylates substrates critical for entry into mitosis. Diseases associated with CDK1 include Polyploidy and Retinoblastoma. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti CDK1 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti CDK1 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with CDK1 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of CDK1 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	31542366
NCBI GeneID	12534
NCBI Accession #	NP_031685.2
NCBI GenBank Nucleotide #	NM_007659.3
Molecular Weight	34,107 Da
NCBI Official Full Name	cyclin-dependent kinase 1
NCBI Official Synonym Full Names	cyclin-dependent kinase 1
NCBI Official Symbol	Cdk1
NCBI Official Synonym Symbols	Cdc2; Cdc2a; p34<CDC2>
NCBI Protein Information	cyclin-dependent kinase 1
UniProt Protein Name	Cyclin-dependent kinase 1
UniProt Gene Name	Cdk1
UniProt Synonym Gene Names	Cdc2; Cdc2a; Cdkn1; CDK1
UniProt Entry Name	CDK1_MOUSE

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.