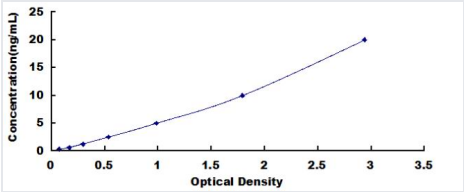
Cyclin D1 (CCND1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclin D1 (CCND1), ELISA Kit
Full Product Name	Human Cyclin D1 (CCND1) ELISA Kit
Product Gene Name	CCND1 elisa kit
Product Synonym Names	CCN-D1; BCL1; PRAD1; U21B31; G1/S-Specific Cyclin-D1; Parathyroid Adenomatosis 1; B-Cell CLL/Lymphoma 1; G1/S-Specific Cyclin D1; PRAD1 oncogene
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates, Cell Culture Supernates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.116ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	33,729 Da
OMIM	168461
3D Structure	ModBase 3D Structure for P24385
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CCND1 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CCND1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CCND1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CCND1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CCND1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CCND1 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.
Searchable Terms for CCND1 purchase	MBS458197 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin D1 (CCND1) 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 CCND1. The ELISA analytical biochemical technique of the MBS458197 kit is based on CCND1 antibody-CCND1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CCND1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CCND1. 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(%).



Typical Testing Data/Standard Curve (for reference only) of CCND1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCND1. It may not necessarily be applicable to this product.

NCBI GI #	16950655
NCBI GeneID	595
NCBI Accession #	NP_444284.1
UniProt Primary Accession #	P24385
UniProt Secondary Accession #	Q6LEF0
UniProt Related Accession #	P24385
GenBank Nucleotide #	NM_053056.2
NCBI Official Full Name	G1/S-specific cyclin-D1
NCBI Official Synonym Full Names	cyclin D1
NCBI Official Symbol	CCND1
NCBI Official Synonym Symbols	BCL1; PRAD1; U21B31; D11S287E
UniProt Protein Name	G1/S-specific cyclin-D1
UniProt Synonym Protein Names	B-cell lymphoma 1 protein; BCL-1; BCL-1 oncogene; PRAD1 oncogene
Protein Family	G1/S-specific cyclin
UniProt Gene Name	CCND1
UniProt Synonym Gene Names	BCL1; PRAD1; BCL-1
NCBI Protein Information	G1/S-specific cyclin-D1
NCBI Summary for CCND1	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis. [provided by RefSeq, Jul 2008]
UniProt Comments for CCND1	Regulatory component of the cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner.

Research Articles on CCND1	**1.** Impact of 9p deletion and p16, Cyclin D1, and Myc hyperexpression on the outcome of anaplastic oligodendrogliomas.
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