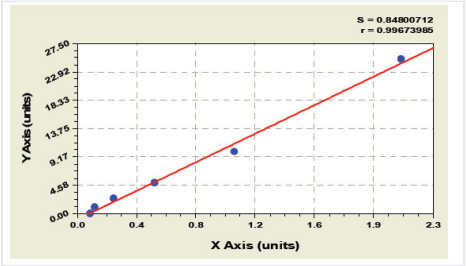
Cyclin D1 (CCND1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclin D1 (CCND1), ELISA Kit
Full Product Name	Human Cyclin D1 ELISA Kit
Product Gene Name	CCND1 elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	33,729 Da
3D Structure	ModBase 3D Structure for Q6FI00
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
Highest Standards	25ng/mL
Concentration of Standards	Concentration of Standards||0,1,2.5,5.0,10,25ng/mL
Product Categories/Family for CCND1 elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CCND1 elisa kit	MBS724349 is a ready-to-use microwell, strip 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 MBS724349 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(%).
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.



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 #	49457151
NCBI GeneID	595
NCBI Accession #	CAG46896.1
UniProt Primary Accession #	Q6FI00
UniProt Related Accession #	P24385
NCBI Official Full Name	CCND1, partial
NCBI Official Synonym Full Names	cyclin D1
NCBI Official Symbol	CCND1
NCBI Official Synonym Symbols	BCL1; PRAD1; U21B31; D11S287E
UniProt Protein Name	CCND1 protein
UniProt Synonym Protein Names	CCND1 protein; Cyclin D1 (PRAD1: parathyroid adenomatosis 1); Cyclin D1, isoform CRA_c; cDNA, FLJ93625, Homo sapiens cyclin D1 (PRAD1: parathyroid adenomatosis 1) (CCND1),mRNA
Protein Family	G1/S-specific cyclin
UniProt Gene Name	CCND1
UniProt Synonym Gene Names	hCG_2016647
UniProt Entry Name	Q6FI00_HUMAN
NCBI Protein Information	G1/S-specific cyclin-D1; BCL-1 oncogene; PRAD1 oncogene; B-cell CLL/lymphoma 1; B-cell lymphoma 1 protein
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	CCND1: a member of the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. 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. Protein type: Oncoprotein; Nuclear receptor co-regulator; Cell cycle regulation; Activator Chromosomal Location of Human Ortholog: 11q13 Cellular Component: nucleoplasm; tight junction; membrane; transcriptional repressor complex; cyclin-dependent protein kinase holoenzyme complex; intracellular; cytosol; nucleus Molecular Function: protein binding; enzyme binding; histone deacetylase binding; protein complex binding; cyclin-dependent protein kinase regulator activity; protein kinase binding; transcription corepressor activity; transcription factor binding; protein kinase activity Biological Process: fat cell differentiation; G1 DNA damage checkpoint; lactation; establishment and/or maintenance of chromatin architecture; positive regulation of cyclin-dependent protein kinase activity; re-entry into mitotic cell cycle; negative regulation of Wnt receptor signaling pathway; positive regulation of mammary gland epithelial cell proliferation; negative regulation of epithelial cell differentiation; Wnt receptor signaling pathway through beta-catenin; negative regulation of transcription from RNA polymerase II promoter; protein amino acid phosphorylation; response to vitamin E; response to magnesium ion; Leydig cell differentiation; response to iron ion; response to X-ray; response to corticosterone stimulus; response to drug; organ regeneration; Notch signaling pathway; transcription, DNA-dependent; unfolded protein response; mammary gland epithelial cell proliferation; liver development; response to organic nitrogen; response to ethanol; response to estrogen stimulus; cell division; mitotic cell cycle; positive regulation of protein amino acid phosphorylation; response to calcium ion; response to DNA damage stimulus; G1/S transition of mitotic cell cycle Disease: Von Hippel-lindau Syndrome; Myeloma, Multiple
Research Articles on CCND1	**1.** SDF1 exerts a quiescent effect on resident c-kit(+) CSPCs by decreasing CK1alpha levels, increasing GSK3b activity, stabilizing b-catenin, and affecting regulation of the cell cycle through Bmi-1 and cyclin D1.
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