Cyclin D (CD) ELISA Kit for Fish

PRODUCT OVERVIEW

Product Name	Cyclin D (CD), ELISA Kit
Full Product Name	Fish Cyclin D ELISA Kit
Product Gene Name	CD elisa kit
Species Reactivity	Fish
Assay Type	Quantitative Sandwich
Detection Range	31.2pg/ml-1000pg/ml
Sensitivity	5.0pg/ml
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100]. All CV% should be compared by concentration, not compared by OD values.
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	33,729 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (69455873..69469242). Location: 11q13
OMIM	168461
3D Structure	ModBase 3D Structure for P24385
Related Product Information for CD elisa kit	Background: This Quantitative Sandwich ELISA kit is for lab reagent/research use only, not for drug, household, therapeutic or test applications! This kit is intended to be used to determine the level of CD (hereafter termed "analyte") in undiluted original Fish serum, plasma or tissue homogenates samples. For other sample types please contact tech support to determine compatibility with this assay. This kit is not suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of CD 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 CD purchase	MBS032213 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin D (CD) 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 CD. The ELISA analytical biochemical technique of the MBS032213 kit is based on CD antibody-CD antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CD antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CD. 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(%).

ADDITIONAL DETAILS

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

NCBI GI #	181245
NCBI GeneID	595
NCBI Accession #	AAA52136.1
UniProt Primary Accession #	P24385

UniProt Secondary Accession #	Q6LEF0
UniProt Related Accession #	P24385
NCBI Official Full Name	cyclin D
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	Cyclin-D-binding Myb-like transcription factor
UniProt Gene Name	CCND1
UniProt Synonym Gene Names	BCL1; PRAD1; BCL-1
UniProt Entry Name	CCND1_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 CD	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 CD	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: Cell cycle regulation; Nuclear receptor co-regulator; Oncoprotein; Activator Chromosomal Location of Human Ortholog: 11q13 Cellular Component: nucleoplasm; tight junction; transcriptional repressor complex; membrane; 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; negative regulation of Wnt receptor signaling pathway; positive regulation of cyclin-dependent protein kinase activity; re-entry into mitotic cell cycle; positive regulation of mammary gland epithelial cell proliferation; negative regulation of epithelial cell differentiation; negative regulation of transcription from RNA polymerase II promoter; Wnt receptor signaling pathway through beta-catenin; 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; Notch signaling pathway; organ regeneration; transcription, DNA-dependent; unfolded protein response; mammary gland epithelial cell proliferation; liver development; response to organic nitrogen; response to ethanol; cell division; response to estrogen stimulus; positive regulation of protein amino acid phosphorylation; mitotic cell cycle; 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 CD	**1.** this study provided evidence that cyclin D1 overexpression may be a marker of prolonged survival in patient subgroups with aggressive phenotypes.
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