Cyclin D2 (CCND2) ELISA Kit for Rabbit

PRODUCT OVERVIEW

Product Name	Cyclin D2 (CCND2), ELISA Kit
Full Product Name	Rabbit Cyclin D2 ELISA Kit
Product Gene Name	CCND2 elisa kit
Species Reactivity	Rabbit
Assay Type	Sandwich (Quantitative)
Detection Range	31.2pg/ml-1000pg/ml.
Sensitivity	5.0pg/ml.
Specificity	No significant cross-reactivity or interference between this analyte and analogues is observed.
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].
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	32,897 Da
Chromosome Location	Chromosome: 6; NC_000072.6 (127125708..127151048, complement). Location: 6 F3; 6 61.92 cM
3D Structure	ModBase 3D Structure for Q4FK45
Related Product Information for CCND2 elisa kit	Background: This Quantitative Sandwich ELISA kit is only for in vitro research use only! This kit is intended to be used for determination the level of CCND2 (hereafter termed "analyte") in undiluted original Rabbit body fluids, tissue homogenates, secretions or feces samples. This kit is NOT suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of CCND2 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 CCND2 purchase	MBS032905 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin D2 (CCND2) 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 CCND2. The ELISA analytical biochemical technique of the MBS032905 kit is based on CCND2 antibody-CCND2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CCND2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CCND2. 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 CCND2. It may not necessarily be applicable to this product.

NCBI GI #	71059743
NCBI GeneID	12444
NCBI Accession #	CAJ18415.1
UniProt Primary Accession #	Q4FK45
UniProt Related Accession #	P30280

NCBI Official Full Name	Ccnd2
NCBI Official Synonym Full Names	cyclin D2
NCBI Official Symbol	Ccnd2
NCBI Official Synonym Symbols	cD2; Vin1; Vin-1; C86853; AI256817; BF642806; 2600016F06Rik
UniProt Protein Name	Ccnd2 protein
Protein Family	G1/S-specific cyclin
UniProt Gene Name	Ccnd2
UniProt Entry Name	Q4FK45_MOUSE
NCBI Protein Information	G1/S-specific cyclin-D2
UniProt Comments for CCND2	CCND2: Regulatory component of the cyclin D2-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/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 G(1) phase. Hypophosphorylates RB1 in early G(1) 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 D2/CDK4/p27Kip1, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Interacts with either CDK4 or CDK6 protein kinase to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Component of the ternary complex cyclin D/CDK4/p27Kip1 required for nuclear translocation and modulation of CDK4-mediated kinase activity. Belongs to the cyclin family. Cyclin D subfamily. Protein type: Cell cycle regulation; Motility/polarity/chemotaxis Cellular Component: nucleoplasm; nuclear membrane; membrane; cytoplasm; cyclin-dependent protein kinase holoenzyme complex; nucleolus; cytosol; chromatin; nucleus Molecular Function: protein binding; protein kinase binding Biological Process: positive regulation of cyclin-dependent protein kinase activity; cell division; regulation of cell cycle; positive regulation of cell proliferation; regulation of cyclin-dependent protein kinase activity; positive regulation of protein amino acid phosphorylation; cell cycle; positive regulation of epithelial cell proliferation; G1/S transition of mitotic cell cycle
Research Articles on CCND2	**1.** Cyclin D2 knockout mice with depleted adult neurogenesis were still able to learn the Barnes maze task
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