

## Human Cyclin-D2 (CCND2) ELISA Kit

Catalog No: #EK11306



Package Size: #EK11306-1 48T #EK11306-2 96T

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## Description

Product Name	Human Cyclin-D2 (CCND2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAK0002; MGC102758; G1/S-specific cyclin D2; CCN-D2;
Accession No.	P30279
Uniprot	P30279
GeneID	894;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:5.9 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate CCND2 in samples. An antibody specific for CCND2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CCND2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CCND2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CCND2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Cyclin D2 is a protein belongs to 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. 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 and be involved in the phosphorylation of tumor suppressor protein Rb. Knockout studies of the homologous gene in mouse suggest the essential roles of this gene in ovarian granulosa and germ cell proliferation.

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Note: This product is for in vitro research use only