

# cyclin D2 (1-289): sc-4075 WB

## BACKGROUND

The proliferation of eukaryotic cells is controlled at specific points in the cell cycle, particularly at the G1 to S and the G2 to M transitions. It is well established that the Cdc2 p34-cyclin B protein kinase plays a critical role in the G2 to M transition while cyclin A associates with Cdk2 p33 and functions in S phase. Considerable effort directed towards the identification of G1 cyclins has led to the isolation of cyclin D, cyclin C and cyclin E. Of these, cyclin D corresponds to a putative human oncogene designated PRAD1 which maps at the site of the Bcl-1 rearrangement in certain lymphomas and leukemias. Two additional human type D cyclins, as well as their mouse homologs, have been identified. Evidence has established that members of the cyclin D family react differentially with the retinoblastoma gene product.

## REFERENCES

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## SOURCE

cyclin D2 (1-289) is expressed in *E. coli* as a 60 kDa tagged fusion protein corresponding to amino acids 1-289 representing full length cyclin D2 protein of human origin.

## STORAGE

Store at -20° C; stable for one year from the date of shipment.

## PRODUCT

cyclin D2 (1-289) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg protein in 0.1 ml SDS-PAGE loading buffer.

## APPLICATIONS

cyclin D2 (1-289) is suitable as a Western blotting control for sc-181, sc-452 and sc-754.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.