cyclin D2 (h): 293T Lysate: sc-111616



The Power to Question

BACKGROUND

The proliferation of eukaryotic cells is controlled at specific points in the cell cycle, particularly at the G_1 to S and the G_2 to M transitions. It is well established that the Cdc2 p34-cyclin B protein kinase plays a critical role in the G_2 to M transition while cyclin A associates with Cdk2 p33 and functions in S phase. Considerable effort directed towards the identification of G_1 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 function to regulate phosphorylation of the retinoblastoma gene product, thereby activating E2F transcription factors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CCND2 (human) mapping to 12p13.32.

PRODUCT

cyclin D2 (h): 293T Lysate represents a lysate of human cyclin D2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

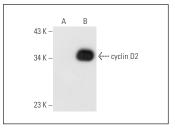
APPLICATIONS

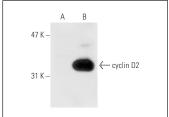
cyclin D2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive cyclin D2 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

cyclin D2 (A-1): sc-166288 is recommended as a positive control antibody for Western Blot analysis of enhanced human cyclin D2 expression in cyclin D2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA





cyclin D2 (A-1): sc-166288. Western blot analysis of cyclin D2 expression in non-transfected: sc-117752 (A) and human cyclin D2 transfected: sc-111616 (B) 293T whole cell lysates.

cyclin D2 (34B1-3): sc-452. Western blot analysis of cyclin D2 expression in non-transfected: sc-117752 (A) and human cyclin D2 transfected: sc-111616 (B) 293T whole cell lysates.

RESEARCH USE

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

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