



E2F-4 (108-300): sc-4098 WB

BACKGROUND

The human retinoblastoma gene product appears to play an important role in the negative regulation of cell proliferation. Functional inactivation of Rb can be mediated either through mutation or as a consequence of interaction with DNA tumor virus encoded proteins. Of all the Rb associations described to date, the identification of a complex between Rb and the transcription factor E2F most directly implicates Rb in regulation of cell proliferation. E2F was originally identified through its role in transcriptional activation of the adenovirus E2 promoter. Sequences homologous to the E2F binding site have been found upstream of a number of genes that encode proteins with putative functions in the G1 and S phases of the cell cycle. E2F-1 is a member of a broader family of transcription regulators including E2F-2, E2F-3, E2F-4, E2F-5 and E2F-6, each of which forms heterodimers with a second protein, DP-1, forming an "active" E2F transcriptional regulatory complex.

REFERENCES

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SOURCE

E2F-4 (108-300) is expressed in *E. coli* as a 56 kDa tagged fusion protein corresponding to amino acids 108-300 of E2F-4 protein of human origin.

STORAGE

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

PRODUCT

E2F-4 (108-300) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

E2F-4 (108-300) is suitable as a Western blotting control for sc-511, sc-512 and sc-6851.

RESEARCH USE

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