

Skp2 p45 (1-435): sc-4231 WB

BACKGROUND

The critical role that the family of regulatory proteins known as cyclins plays in eukaryotic cell cycle regulation is well established. The best characterized cyclin complex is the mitotic cyclin B/Cdc2 p34 kinase, the active component of M phase promoting factor. Cyclin A accumulates prior to cyclin B in the cell cycle, appears to be involved in control of S phase and has been shown to associate with cyclin dependent kinase-2 (Cdk2). In addition, cyclin A has been implicated in cell transformation and is found in complexes with E1A, transcription factors DP-1 and E2F and retinoblastoma protein p110. Two cyclin A-Cdk2 complex binding proteins, Skp1 p19 and Skp2 p45, have been described. Although the Skps (S phase kinase-associated proteins) associate with the active cyclin A-Cdk2 complex, they do not exhibit any regulatory effects on the complex. Abolition of Skp2 p45 function by either microinjection of anti-p45 antibodies or addition of antisense oligonucleotides prevents entry into S phase of both normal and transformed cells.

REFERENCES

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STORAGE

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

SOURCE

Skp2 p45 (1-435) is expressed in *E. coli* as a 75 kDa tagged fusion protein of human origin corresponding to amino acids 1-435 representing full length Skp2 p45.

PRODUCT

Skp2 p45 (1-435) is purified from bacterial lysates by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Skp2 p45 (1-435) is suitable as a Western blotting control for sc-1565, sc-1566, sc-1567 and sc-7164.

RESEARCH USE

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