# Skp1 p19 (52): sc-136301



The Power to Question

### **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 MPF (maturation 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**

- Draetta, G., et al. 1989. Cdc2 protein kinase is complexed with both cyclin A and B: evidence for proteolytic inactivation of MPF. Cell 56: 829-838.
- 2. Giordano, A., et al. 1989. A 60 kDa Cdc2-associated polypeptide complexes with the E1A proteins in adenovirus-infected cells. Cell 58: 981-990.
- 3. Wang, J., et al. 1990. Hepatitis B virus integration in a cyclin A gene in a hepatocellular carcinoma. Nature 343: 555-557.
- 4. Pines, J., et al. 1990. Human cyclin A is adenovirus E1A-associated protein p60 and behaves differently from cyclin B. Nature 346: 760-763.
- 5. Bandara, L.R., et al. 1991. Cyclin A and the retinoblastoma gene product complex with a common transcription factor. Nature 352: 249-251.
- 6. Williams, R.T., et al. 1992. Co-purification of p34 Cdc2/p58 cyclin A proline-directed protein kinase and the retinoblastoma tumor susceptibility gene product: interaction of an oncogenic serine/threonine protein kinase with a tumor-suppressor protein. Oncogene 7: 423-432.
- 7. Lees, E., et al. 1992. Cyclin E/Cdk2 and cyclin A/Cdk2 kinases associate with p107 and E2F in a temporally distinct manner. Genes Dev. 6: 1874-1885.

### CHROMOSOMAL LOCATION

Genetic locus: SKP1 (human) mapping to 5q31.1; Skp1a (mouse) mapping to 11 B1.3.

#### SOURCE

Skp1 p19 (52) is a mouse monoclonal antibody raised against amino acids 4-158 of Skp1 p19 of human origin.

## **PRODUCT**

Each vial contains 50  $\mu g\ lgG_1$  in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### **RESEARCH USE**

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

#### **APPLICATIONS**

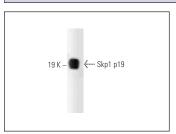
Skp1 p19 (52) is recommended for detection of Skp1 p19 of mouse, rat, human and canine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Skp1 p19 siRNA (h): sc-29482, Skp1 p19 siRNA (m): sc-36498, Skp1 p19 shRNA Plasmid (h): sc-29482-SH, Skp1 p19 shRNA Plasmid (m): sc-36498-SH, Skp1 p19 shRNA (h) Lentiviral Particles: sc-29482-V and Skp1 p19 shRNA (m) Lentiviral Particles: sc-36498-V.

Molecular Weight of Skp1 p19: 19 kDa.

Positive Controls: mouse brain extract: sc-2253, A-431 whole cell lysate: sc-2201 or HeLa nuclear extract: sc-2120.

#### **DATA**



Skp1 p19 (52): sc-136301. Western blot analysis of Skp1 p19 expression in A-431 whole cell lysate.

## **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### **PROTOCOLS**

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

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