

# Skp1 p19 (H-163): sc-7163

## 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

Skp1 p19 (H-163) is a rabbit polyclonal antibody raised against amino acids 1-163 representing full length Skp1 p19 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as agarose conjugate for immunoprecipitation, sc-7163 AC, 500 µg/0.25 ml agarose in 1 ml.

## APPLICATIONS

Skp1 p19 (H-163) is recommended for detection of Skp1 p19 of mouse, rat and human 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Skp1 p19 (H-163) is also recommended for detection of Skp1 p19 in additional species, including equine, canine, bovine and avian.

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.

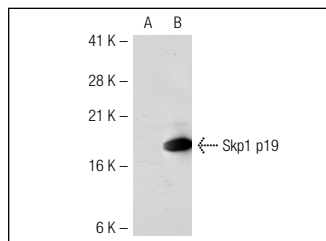
Molecular Weight of Skp1 p19: 19 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or Skp1 p19 (h): 293T Lysate: sc-114049.

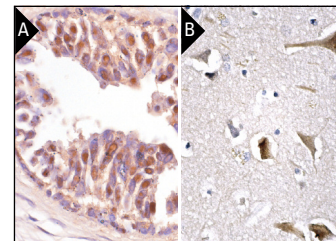
## STORAGE

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

## DATA



Skp1 p19 (H-163): sc-7163. Western blot analysis of Skp1 p19 expression in non-transfected: sc-117752 (A) and human Skp1 p19 transfected: sc-114049 (B) 293T whole cell lysates.



Skp1 p19 (H-163): sc-7163. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast tumor showing nuclear staining (A) and brain tissue showing nuclear and cytoplasmic staining of neuronal cells (B).

## SELECT PRODUCT CITATIONS

1. Matsuzawa, S.I., et al. 2001. SIAH-1, SIP, and Ebi collaborate in a novel pathway for  $\beta$ -catenin degradation linked to p53 responses. *Mol. Cell* 7: 915-926.
2. Zhu, X.H., et al. 2004. Noncatalytic requirement for cyclin A-cdk2 in p27 turnover. *Mol. Cell. Biol.* 24: 6058-6066.
3. Lin, Y.W., et al. 2006. Cooperation of ERK and SCFSkp2 for MKP-1 destruction provides a positive feedback regulation of proliferating signaling. *J. Biol. Chem.* 281: 915-926.
4. Nelson, R.F., et al. 2006. A novel route for F-box protein-mediated ubiquitination links CHIP to glycoprotein quality control. *J. Biol. Chem.* 281: 20242-20251.
5. Owens, L., et al. 2010. Activation domain-dependent degradation of somatic Wee1 kinase. *J. Biol. Chem.* 285: 6761-6769.
6. D'Angiolella, V., et al. 2010. SCF(Cyclin F) controls centrosome homeostasis and mitotic fidelity through CP110 degradation. *Nature* 466: 138-142.
7. Li, Y., et al. 2011. ShRNA-targeted centromere protein A inhibits hepatocellular carcinoma growth. *PLoS ONE* 6: e17794.
8. Inuzuka, H., et al. 2011. SCF(FBW7) regulates cellular apoptosis by targeting MCL1 for ubiquitylation and destruction. *Nature* 471: 104-109.

## RESEARCH USE

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

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Try **Skp1 p19 (H-6): sc-5281** or **Skp1 p19 (52): sc-136301**, our highly recommended monoclonal alternatives to Skp1 p19 (H-163).