SANTA CRUZ BIOTECHNOLOGY, INC.

Skp1 p19 (C-20): sc-1568

SANTA CRUZ BIOTECHNOLOGY
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.

CHROMOSOMAL LOCATION

Genetic locus: SKP1A (human) mapping to 5q31.1; Skp1a (mouse) mapping to 11 B1.3.

SOURCE

Skp1 p19 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of 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.

Blocking peptide available for competition studies, sc-1568 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-1568 AC, 500 µg/0.25 ml agarose in 1 ml.

Available as HRP conjugate for Western blotting, sc-1568 HRP, 200 µg/1 ml.

APPLICATIONS

Skp1 p19 (C-20) 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 (C-20) is also recommended for detection of Skp1 p19 in additional species, including equine, canine, bovine and avian.

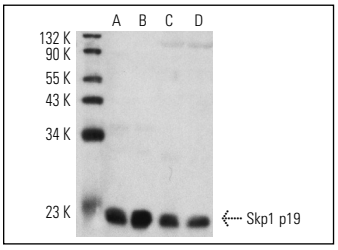
Suitable for use as control antibody for Skp1 p19 siRNA (h): sc-29482, Skp1 p19 siRNA (m): sc-36498, Skp1 p19 shRNA Plasmid (h): sc-29482-SH, Skp1 p19 shRNA Plasmid (m): sc-36498-SH, Skp1 p19 shRNA (h) Lentiviral Particles: sc-29482-V and Skp1 p19 shRNA (m) Lentiviral Particles: sc-36498-V.

Molecular Weight of Skp1 p19: 19 kDa.

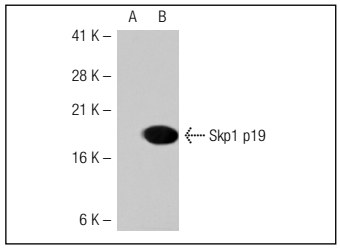
STORAGE

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

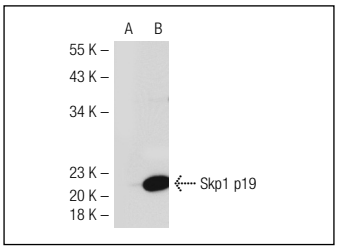
DATA



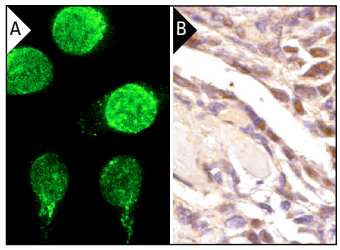
Skp1 p19 (C-20): sc-1568. Western blot analysis of Skp1 p19 expression in A-431 (**A**) and HeLa (**B**) nuclear extracts and rat brain (**C**) and mouse brain (**D**) tissue extracts.



Skp1 p19 (C-20): sc-1568. 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 (C-20): sc-1568. Western blot analysis of Skp1 p19 expression in non-transfected: sc-117752 (**A**) and mouse Skp1 p19 transfected: sc-126001 (**B**) 293T whole cell lysates.



Skp1 p19 (C-20): sc-1568. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (**A**). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human lymphoma showing nuclear staining (**B**).

SELECT PRODUCT CITATIONS

1. Ng, R.W., et al. 1998. Characterization of the cullin and F-box protein partner Skp1. FEBS Lett. 438: 183-189.
2. Fung, T.K., et al. 2002. Cyclin F is degraded during G_2-M by mechanisms fundamentally different to other cyclins. J. Biol. Chem. 277: 35140-35149.
3. Tokuzawa, Y., et al. 2003. Fbx15 is a novel target of Oct3/4 but is dispensable for embryonic stem cell self-renewal and mouse development. Mol. Cell. Biol. 23: 2699-2708.
4. Xu, X., et al. 2008. The CUL7 E3 ubiquitin ligase targets Insulin receptor substrate 1 for ubiquitin-dependent degradation. Mol. Cell 30: 403-414.

RESEARCH USE

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