

Polyclonal Antibody to p19/Skp1 - Purified

Alternate names: p19Skp1

Catalog No.: AP00586PU-N

Quantity: 0.5 mg

Concentration: 1.0 mg/ml

Background: The yeast SKP1 gene and its human homolog p19skp1 encodes a kinetochore protein required for cell cycle progression at both the DNA synthesis and mitosis phases of the cell cycle. p19SKP1 is a human protein that is part of active cyclin A-CDK2 complexes. In normal human fibroblasts, cyclin A-CDK2 exists in a quaternary complex that contains p21 and PCNA. In many transformed cells, p21 disappears, and a substantial fraction of cyclin A-CDK2 complexes with p9CKS1/CKS2, p19, and p45. To investigate the significance of these rearrangements, cDNAs encoding p19 and p45 were isolated. In vitro reconstitution demonstrated that binding of p19 to cyclin A-CDK2 requires p45. Addition of these proteins to the kinase had no substantial effect on the kinase activity in vitro. Interference with p45 function in vivo by microinjection of antibodies or antisense oligonucleotides prevented entry into S phase in both normal and transformed cells. Cyclin A-CDK2 has previously been identified as a kinase whose activity is essential for S phase.

Host: Rabbit

Immunogen: A peptide corresponding to C-terminus of the human p19Skp1.

AA Sequence:

152-163 (QVRKENQWCEEK)

Remarks: Mol. Wt. of Antigen: 19 kDa

Format: State: LiquidIgG

Purification: Protein A chromatography

Buffer System: 10 M PBS, pH 7.4, with 0.2 BSA & 0.09 sodium azide.

Applications: Immunoprecipitation, (Native and denatured), (Use Protein A): Ab at 10µg/mg protein lysate.

Western Blotting: Ab 5-10 µg/ml for 2hrs at RT.

Positive Control: MAD109 cells

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects p19Skp1.

Cellular Localization: Nuclear

Species: Human, Mouse.

Other species not tested.

Storage: Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

- General Readings:**
1. Zhang H, et. al. Cell 82:915-925, 1995.
 2. Michel J, et. al. Cell Growth & differentiation 9:435-449, 1998.