



## Polyclonal Anti-P27 (Sepharose Bead Conjugate)

**Catalogue No.** PA1063-S

**Lot No.** 03A01

**Ig type:** rabbit IgG

**Size:** 100µg/vial

### Specificity

Human, mouse, rat. No cross reactivity with other proteins.

### Recommended application

*(Immunoprecipitation(IP))*

### Immunogen

A peptide mapping at the C-terminal end of P27 origin differs from the related rat sequence by single amino acid.

### Purification

Immunogen affinity purified.

### Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

### Storage

Store at 4°C for frequent use.

### Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

## BACKGROUND

Cyclin-dependent kinase inhibitor 1B (CDKN1B), also known as p27 (KIP1), is a cyclin-dependent kinase (Cdk) inhibitor implicated in G1 phase arrest, which negatively regulates G1 phase progression in response to TGF beta and represents a tumor suppressor gene. Human p27 gene is mapped to chromosome 12p12.3 p27 can be both an inhibitor and a substrate of cyclin E-CDK2. p27, abundant in quiescent cells and drops after serum stimulation, plays a role in mediating VSMC hypertrophy. p27 degradation is subject to dual control by the accumulation of both SKP2 and cyclins following mitogenic stimulation. It regulates cell proliferation by binding to and modulating the activity of cyclin-dependent kinases. Reduced p27 activity is fundamental for the development of many human malignancies including breast, prostate, colon and gastric carcinomas.

## REFERENCE

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3. Braun-Dullaeus RC, Mann MJ, Ziegler A, von der Leyen HE, Dzau VJ. A novel role for the cyclin-dependent kinase inhibitor p27(Kip1) in angiotensin II-stimulated vascular smooth muscle cell hypertrophy. J Clin Invest. 1999 Sep; 104(6):815-23.
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**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)