



Affinity-Purified Rabbit Anti-phospho-P27/Kip1 (T157) Antibody

Specificity: Human phospho-P27/Kip1 (T157)	Size: 0.1 mg
Source: Rabbit	IgG Type: rabbit IgG

Background:

Involved in G1 arrest. May mediate TGF beta-induced G1 arrest. Binds to and inhibits complexes formed by cyclin E-CDK2, cyclin A-CDK2, and cyclin D1-CDK2. Interaction with nucleoporin NUP50 is required for nuclear import and for degradation of phosphorylated p27Kip1 after nuclear import.

Other Name: Cyclin-dependent kinase inhibitor p27Kip1

Specificity:

Human:

Positive

Application : For western blot analysis, an antibody concentration of 1 µg/ml is recommended

ELISA

Western blotting
Immunohistochemistry
Immunoprecipitation
Flow cytometry

Positive
Positive 1 mg/ml
Positive
Positive
Positive

Isotype: Rabbit IgG

Description: This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding the phospho sites.

Storage: Upon reconstitution, maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C to -70°C. Lyophilized samples are stable for twelve months from the date of receipt when stored at -20°C to -70°C

Format: Purified rabbit monoclonal antibody supplied in PBS with 0.02% (W/V) sodium azide. This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with the control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low salt and neutralized immediately, followed by dialysis against PBS.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

References:

1. [Pavletich N.P.](#); "Crystal structure of the p27Kip1 cyclin-dependent-kinase inhibitor bound to the cyclin A-Cdk2 complex."; *Nature* 382:325-331(1996).
2. [Donoghue D.J.](#); "Spy1 interacts with p27Kip1 to allow G1/S progression."; *Mol. Biol. Cell* 14:3664-3674(2003).
3. [Nabel E.G.](#); "A growth factor-dependent nuclear kinase phosphorylates p27(Kip1) and regulates cell cycle progression."; *EMBO J.* 21:3390-3401(2002).