

**p27 Kip1 (D69C12) XP® Rabbit mAb  
(Biotinylated)**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H R Mk	Endogenous	27	Rabbit IgG	#P46527	1027

**Product Usage  
Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

**Specificity/Sensitivity**

p27 Kip1 (D69C12) XP® Rabbit mAb (Biotinylated) recognizes endogenous levels of total p27 Kip1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human p27 Kip1 protein.

**Description**

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated p27 Kip1 (D69C12) XP® Rabbit mAb #3686.

**Background**

p27 Kip1 is a member of the Cip/Kip family of cyclin-dependent kinase inhibitors. Like its relatives, p57 Kip2 and p21 Waf1/Cip1, the ability to enforce the G1 restriction point is derived from its inhibitory binding to CDK2/cyclin E and other CDK/cyclin complexes. Expression levels of p27 are upregulated in quiescent cells and in cells treated with cAMP or other negative cell cycle regulators. Downregulation of p27 can be induced by treatment with interleukin-2 or other mitogens; this involves phosphorylation of p27 and its degradation by the ubiquitin-proteasome pathway (1-4).

**Background References**

1. Lloyd, R.V. et al. (1999) *Am J Pathol* 154, 313-23.
2. Polyak, K. et al. (1994) *Genes Dev* 8, 9-22.
3. Kato, J.Y. et al. (1994) *Cell* 79, 487-96.
4. Vlach, J. et al. (1997) *EMBO J* 16, 5334-44.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human **R:** Rat **Mk:** Monkey

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