

**p27 Kip1 (SX53G8.5) Mouse mAb**

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<b>Applications:</b> W, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 27	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #P46527	<b>Entrez-Gene Id:</b> 1027
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**Product Usage Information****Application**

Western Blotting  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:1600

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

p27 Kip1 (SX53G8.5) Mouse mAb detects endogenous levels of total p27 Kip1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with recombinant human p27 Kip1.

**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**

- Lloyd, R.V. et al. (1999) *Am J Pathol* 154, 313-23.
- Polyak, K. et al. (1994) *Genes Dev* 8, 9-22.
- Kato, J.Y. et al. (1994) *Cell* 79, 487-96.
- 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

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

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