#12184 Store at 4°C

p27 Kip1 (D69C12) XP® Rabbit mAb (PE Conjugate)

☑ 100 µl
(50 tests)

Cell Signaling TECHNOLOGY®

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New 06/13

For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez Gene ID #1027
UniProt ID #P46527

Applications	Species Cross-Reactivity*	Isotype
F Endogenous	H, R, Mk	Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated p27 Kip1 (D69C12) XP® Rabbit mAb #3686.

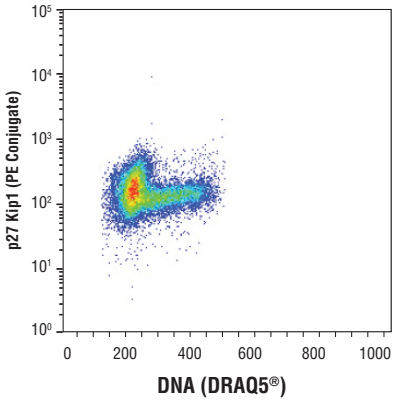
Background: p27 Kip1 is a member of the Cip/Kip family of cyclin-dependent kinase inhibitors. Like its relatives, p57 Kip2 and p21 Waf1/Cip1, the ability to enforce the G1 restriction point is derived from its inhibitory binding to CDK2/cyclin E and other CDK/cyclin complexes. Expression levels of p27 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).

Specificity/Sensitivity: p27 Kip1 (D69C12) XP® Rabbit mAb (PE Conjugate) detects 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.

Background References:

(1) Lloyd, R.V. et al. (1999) *Am. J. Pathol.* 154, 313-323.
(2) Polyak, K. et al. (1994) *Genes Dev.* 8, 9-22.
(3) Kato, J.Y. et al. (1994) *Cell* 79, 487-496.
(4) Vlach, J. et al. (1997) *EMBO J.* 16, 5334-5344.



Flow cytometric analysis of Jurkat cells using p27 Kip1 (D69C12) XP® Rabbit mAb (PE Conjugate) and DRAQ5® #4084 (fluorescent DNA dye).

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. *Do not aliquot the antibodies. Protect from light. Do not freeze.*

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

Recommended Antibody Dilutions:

Flow Cytometry	1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

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Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.