

Product datasheet for **R1007**

p27 KIP 1 (CDKN1B) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	Suitable for ELISA, Immunoprecipitation, Immunoblotting and other immunological methods requiring high titer and specificity. <u>Recommended Dilutions:</u> This product was assayed by immunoblot and found to be reactive against p27 from cell lysates and E.coli produced fusion proteins at a dilution of 1:2000 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat). Expect a band at ~27 kDa in size corresponding to p27 by western blotting in the appropriate cell lysate or extract. Anti-p27 is suitable for the detection by immunoblot of human, rat and mouse p27. This antisera is suitable for Immunoprecipitation of in vitro translated protein and cell lysates (C212, 3T3-L1) and will co-precipitate associated proteins.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Full length human p27 protein.
Specificity:	This product was Antiserum will specifically react with a p27 protein from human tissue. No reaction was observed against other related tumor suppressor proteins. No reactivity is observed with p27 from mouse. Reactivity against p27 from other species is unknown.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% (w/v) Sodium Azide as preservative. State: Serum State: Liquid (sterile filtered) purified Ig fraction.
Concentration:	lot specific
Purification:	Prepared from monospecific antiserum by delipidation and defibrination.
Conjugation:	Unconjugated
Storage:	Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer. Dilute only prior to immediate use. Avoid cycles of freezing and thawing.



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Stability: Shelf life: One year from despatch.

Gene Name: cyclin-dependent kinase inhibitor 1B

Database Link: [Entrez Gene 1027 Human P46527](#)

Background: p27 Kip is a cyclin-dependent kinase inhibitor that shares a limited similarity with CDK inhibitor CDKN1A/p21. p27 binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state.

Synonyms: p27Kip1

Product images:

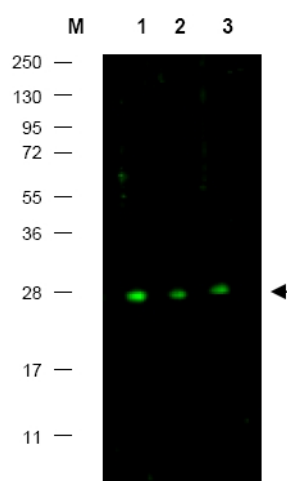


Figure 1. Western blot using affinity purified anti-p27 antibody shows detection of p27 protein in MCF7 whole cell lysate (lanes 1-3) (arrowhead). Separation was achieved using a 4-20% gradient gel. Blocking occurred using 5% BLOTTO. Primary antibody was diluted 1:500 in 1% BLOTTO. The membrane was washed and reacted with a 1:10,000 dilution of Dylight (TM) 800 conjugated Gt-a-Rabbit IgG. Molecular weight estimation was made by comparison to prestained MW markers indicated at the left (lane M). Other detection systems will yield similar results.