

Product datasheet for **TA354222**

p27 KIP 1 (CDKN1B) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the C-terminus of human p27. This sequence is identical among human, rat, mouse, bovine, dog origins.
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	~27 kDa
Gene Name:	cyclin-dependent kinase inhibitor 1B
Database Link:	NP_004055 Entrez Gene 12576 Mouse Entrez Gene 83571 Rat Entrez Gene 1027 Human P46527

Background: The p27Kip1 gene codes for a cyclin-dependent kinase inhibitor implicated in G1 arrest by transforming growth factor beta, cell-cell contact, agents that elevate cyclic AMP, and the growth-inhibitory drug rapamycin. p27 binds to and inhibits complexes formed by cyclin E-cdk2, cyclin A-cdk2, and cyclin D-cdk4. The involvement of p27 in the negative regulation of cell proliferation suggests that it may also function as a tumor suppressor gene. The degradation of p27, 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.



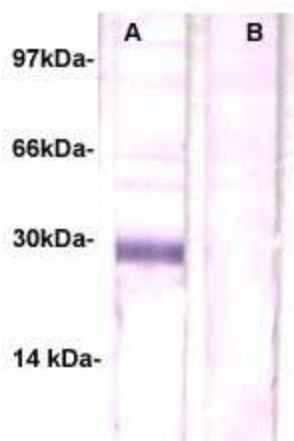
[View online »](#)

Synonyms: CDKN4; KIP1; MEN1B; MEN4; P27KIP1

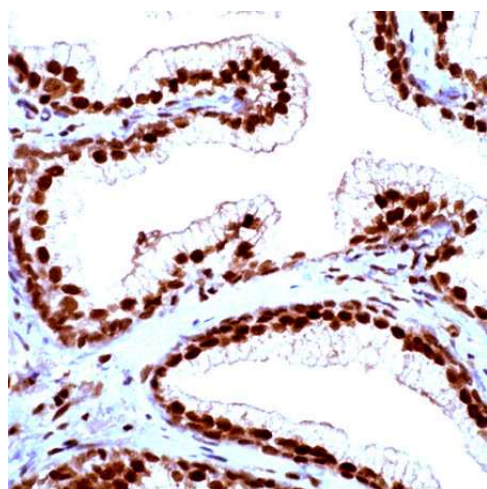
Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer

Product images:



WB: The whole cell lysate derived from HeLa cells was loaded in 12% SDS-PAGE, transferred onto NC membrane, and immune-probed by Rabbit anti-p27Kip1 antibody at 1:500. An immune-reactive band is observed around ~27kDa (lane A). This band was abolished by immunizing peptide (lane B).



IHC: Human prostate tissue stained with Anti-p27Kip1 antibody, at 1:100 for 10 min at RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.