

Product datasheet for **AP23264PU-N**

p27 KIP 1 (CDKN1B) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	Western blot: At 1-2µg/ml with the appropriate system to detect P27 in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect P27 in formalin fixed and paraffin embedded tissues. Boiling the sections is required. Immunoprecipitation.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide mapping at the C-terminal end of P27 of human origin
Specificity:	This antibody detects CDKN1B / KIP1 at C-term. No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cyclin-dependent kinase inhibitor 1B
Database Link:	Entrez Gene 12576 Mouse Entrez Gene 83571 Rat Entrez Gene 1027 Human P46527



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Background:

Cyclin-dependent kinase inhibitor 1B (CDKN1B), also known as p27 (KIP1), is a cyclin-dependent kinase (Cdk) inhibitor implicated in G1 phase arrest, which negatively regulates G1 phase progression in response to TGF beta and represents a tumor suppressor gene. Human p27 gene is mapped to chromosome 12p12.3 p27 can be both an inhibitor and a substrate of cyclin E-CDK2. p27, abundant in quiescent cells and drops after serum stimulation, plays a role in mediating VSMC hypertrophy. p27 degradation is subject to dual control by the accumulation of both SKP2 and cyclins following mitogenic stimulation. It regulates cell proliferation by binding to and modulating the activity of cyclin-dependent kinases. Reduced p27 activity is fundamental for the development of many human malignancies including breast, prostate, colon and gastric carcinomas.

Synonyms:

p27Kip1

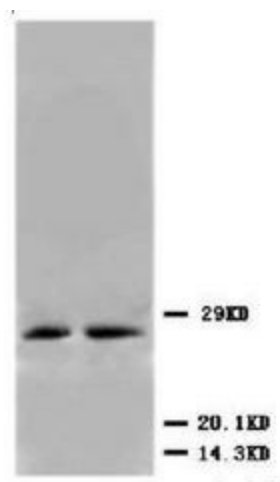
Protein Families:

Druggable Genome

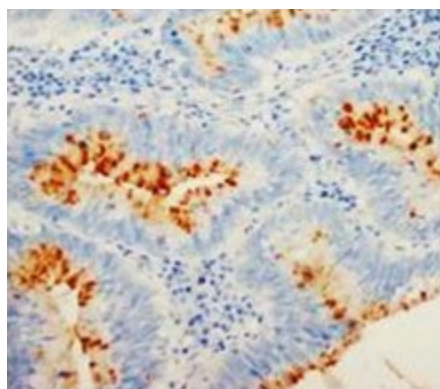
Protein Pathways:

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

Product images:



Western blot analysis of HeLa cell lysis using P27 antibody



Immunohistochemical analysis of paraffin embedded Intestine cancer sections, staining P27 in nucleus, DAB chromogenic reaction