

Product datasheet for **AM20656PU-N**

p27 KIP 1 (CDKN1B) Mouse Monoclonal Antibody [Clone ID: IMD-27]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | IMD-27 |
| Applications: | IF, WB |
| Recommended Dilution: | Western Blot: 2 - 4 µg/ml. Immunocytochemistry. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | recombinant rodent p27Kip1 protein |
| Specificity: | This antibody reacts to CDKN1B. |
| Formulation: | 1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative. State: Purified State: Lyophilized purified Ig fraction |
| Reconstitution Method: | Restore with 1.2% sodium acetate or neutral PBS |
| Concentration: | 0,1 mg/ml (after reconstitution with PBS) |
| Purification: | Affinity chromatography |
| Conjugation: | Unconjugated |
| Storage: | Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for 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: | <u>Entrez Gene 12576 Mouse</u> <u>Entrez Gene 83571 Rat</u> <u>Entrez Gene 1027 Human</u> <u>P46527</u> |



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| Background: | <p>P27(kip1), also known as cyclin dependent kinase inhibitor 1B(CDKN1B), is a major target of AFX-like forkhead proteins. CDKN1B (p27) belongs to the Cip/Kip family and functions as an important cell cycle gatekeeper. Phosphorylation leads to the ubiquitination and degradation of CDKN1B. P27(kip1) mapped to 12p13. An increase in p27 causes proliferating cells to exit from the cell cycle, and a decrease in p27 is necessary for quiescent cells to resume division. Abnormally low amounts of p27 are associated with pathological states of excessive cell proliferation, especially cancers. Overexpression of p27Kip1 lengthens the G1 phase in a mouse model that targets inducible gene expression to central nervous system progenitor cells.</p> |
| Synonyms: | <p>p27Kip1</p> |
| Protein Families: | <p>Druggable Genome</p> |
| Protein Pathways: | <p>Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer</p> |