# p27Kip1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | p27Kip1, Polyclonal Antibody |
| **Full Product Name** | p27Kip1, Phosphorylated (S83) (CDKN1B, KIP1, Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1) (MaxLight 405) |
| **Product Gene Name** | anti-p27Kip1 antibody |
| **Product Synonym Gene Name** | CDKN1B |
| **Product Synonym Names** | CDKN1B; KIP1; Cyclin-dependent kinase inhibitor 1B; Cyclin-dependent kinase inhibitor p27; p27Kip1 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 22,073 Da |
| **Chromosome Location** | Chromosome: 12; NC_000012.11 (12870302..12875305). Location: 12p13.1-p12 |
| **OMIM** | 600778 |
| **3D Structure** | ModBase 3D Structure for P46527 |
| **Immunogen** | p27Kip1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S83 of human p27Kip1. |
| **Conjugate** | MaxLight405 |
| **Antigen Modification** | Phosphorylated |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-p27Kip1 antibody** | Antibodies; Protein Kinase Inhibitors |
| **Applications Tested/Suitable for anti-p27Kip1 antibody** | FLISA, Dot Blot (DB) |
| **Application Notes for anti-p27Kip1 antibody** | FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-p27Kip1 antibody** | This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein 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. [provided by RefSeq]. |

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| **Product References and Citations for anti-p27Kip1 antibody** | Kajihara, R., et al. Biochem. Biophys. Res. Commun. 401(3):350-355(2010). Kedde, M., et al. Nat. Cell Biol. 12(10):1014-1020(2010). Canbay, E., et al. Anticancer Res. 30(7):3093-3098(2010). Do Nascimento Borges, B., et al. In Vivo 24(4):579-582(2010). Qin, J., et al. Hepatogastroenterology 57 (99-100), 547-553 (2010). |
| **Other Notes** | Small volumes of anti-p27Kip1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for p27Kip1 purchase** | MBS6330147 is an antibody targeting p27Kip1. Also known as p27Kip1, Phosphorylated (S83) (CDKN1B, KIP1, Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1) (MaxLight 405). Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p27Kip1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4757962 |
| **NCBI GeneID** | 1027 |
| **NCBI Accession #** | NP_004055.1 |
| **UniProt Primary Accession #** | P46527 |
| **UniProt Secondary Accession #** | Q16307; Q5U0H2; Q9BUS6 |
| **UniProt Related Accession #** | P46527 |
| **GenBank Nucleotide #** | NM_004064.3 |
| **NCBI Official Full Name** | cyclin-dependent kinase inhibitor 1B |
| **NCBI Official Synonym Full Names** | cyclin-dependent kinase inhibitor 1B (p27, Kip1) |
| **NCBI Official Symbol** | CDKN1B |
| **NCBI Official Synonym Symbols** | KIP1; MEN4; CDKN4; MEN1B; P27KIP1 |
| **UniProt Protein Name** | Cyclin-dependent kinase inhibitor 1B |
| **UniProt Synonym Protein Names** | Cyclin-dependent kinase inhibitor p27; p27Kip1 |
| **Protein Family** | Cyclin-dependent kinase inhibitor |
| **UniProt Gene Name** | CDKN1B |
| **UniProt Synonym Gene Names** | KIP1 |
| **UniProt Entry Name** | CDN1B_HUMAN |
| **NCBI Protein Information** | cyclin-dependent kinase inhibitor 1B |
| **NCBI Summary for p27Kip1** | This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein 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. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for p27Kip1** | p27Kip1: a cell-cycle regulatory protein that Interacts with cyclin-CDK2 and -CDK4, inhibiting cell cycle progression at G1. May mediate TGF beta-induced g1 arrest. Its degradation 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.<br><br>Protein type: Oncoprotein; Cell cycle regulation; Inhibitor; Protein kinase, regulatory subunit<br><br>Chromosomal Location of Human Ortholog: 12p13.1-p12<br><br>Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus; endosome<br><br>Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; chaperone binding; protein complex binding; caspase activator activity; Hsp70 protein binding; protein phosphatase binding; transforming growth factor beta receptor, cytoplasmic mediator activity<br><br>Biological Process: response to peptide hormone stimulus; negative regulation of kinase activity; nerve growth factor receptor signaling pathway; positive regulation of microtubule polymerization; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; response to estradiol stimulus; negative regulation of cell proliferation; sensory perception of sound; positive regulation of cell proliferation; response to glucose stimulus; negative regulation of mitotic cell cycle; cell cycle arrest; inner ear development; potassium ion transport; response to drug; caspase activation; epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; negative regulation of cyclin-dependent protein kinase activity; negative regulation of cell motility; response to amino acid stimulus; response to cadmium ion; autophagic cell death; positive regulation of protein catabolic process; response to hypoxia; negative regulation of phosphorylation; innate immune response; negative regulation of cell growth; mitotic cell cycle; regulation of cyclin-dependent protein kinase activity; negative regulation of transcription, DNA-dependent; negative regulation of apoptosis; G1/S transition of mitotic cell cycle<br><br>Disease: Multiple Endocrine Neoplasia, Type Iv |
| **Research Articles on p27Kip1** | **1.** A low p27 expression is associated with lymph node metastasis, deep stromal invasion, tumor diameter more than 20 mm, and high GOG score and had a prognostic influence on overall survival in a series of 130 women cervical carcinoma. |
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