p27Kip1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	p27Kip1, Polyclonal Antibody
Full Product Name	p27Kip1, Phosphorylated (Thr157) (Cyclin-dependent Kinase Inhibitor 1B, Cyclin-dependent Kinase Inhibitor p27, CDKN1B, KIP1) (MaxLight 550)
Product Gene Name	anti-p27Kip1 antibody
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 MaxLight550.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human p27Kip1 when phosphorylated at Thr157.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	22,073 Da
OMIM	600778
3D Structure	ModBase 3D Structure for P46527
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Thr157 of human p27Kip1 (KLH).
Conjugate	MaxLight550
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-p27Kip1 antibody	Antibodies; Protein Kinase Inhibitors
Applications Tested/Suitable for anti-p27Kip1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-p27Kip1 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-p27Kip1 antibody	MBS6491346 is an antibody targeting p27Kip1. Also known as p27Kip1, Phosphorylated (Thr157) (Cyclin-dependent Kinase Inhibitor 1B, Cyclin-dependent Kinase Inhibitor p27, CDKN1B, KIP1) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-p27Kip1 antibody	1. Kawamata, N., et al., Eur. J. Haematol. 74(5):424-429 (2005). 2. Andreu, E.J., et al., Cancer Res. 65(8):3264-3272 (2005). 3. Wingate, H., et al., J. Biol. Chem. 280(15):15148-15157 (2005). 4. Wang, C., et al., J. Biol. Chem. 280(13):12339-12343 (2005). 5. Rassidakis, G.Z., et al., Blood 105(2):827-829 (2005).

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.

ADDITIONAL DETAILS

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

NCBI GI #	4757962
NCBI GeneID	1027
NCBI Accession #	NP_004055
UniProt Primary Accession #	P46527
UniProt Secondary Accession #	Q16307; Q5U0H2; Q9BUS6
UniProt Related Accession #	P46527
GenBank Nucleotide #	NM_004064.4
NCBI Official Full Name	cyclin-dependent kinase inhibitor 1B
NCBI Official Synonym Full Names	cyclin dependent kinase inhibitor 1B
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. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4). [provided by RefSeq, Apr 2014]

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. Protein type: Oncoprotein; Cell cycle regulation; Inhibitor; Protein kinase, regulatory subunit Chromosomal Location of Human Ortholog: 12p13.1-p12 Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus; endosome 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 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 Disease: Multiple Endocrine Neoplasia, Type Iv
Research Articles on p27Kip1	**1.** Overall, the authors find that p27 directly promotes cell invasion by facilitating invadopodia turnover via the Rac1/PAK1/Cortactin pathway.
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