p27Kip1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	p27Kip1, Polyclonal Antibody
Full Product Name	p27Kip1, Phosphorylated (T170) (CDKN1B, KIP1, Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1) (MaxLight 490)
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 MaxLight490.
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: MaxLight490 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 T170 of human p27Kip1.
Conjugate	MaxLight490
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 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].

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	MBS6330159 is an antibody targeting p27Kip1. Also known as p27Kip1, Phosphorylated (T170) (CDKN1B, KIP1, Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1) (MaxLight 490). 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.

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]

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.** 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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/p27kip1/6330159