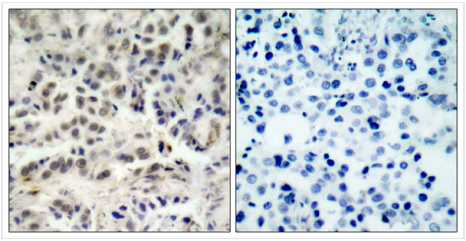
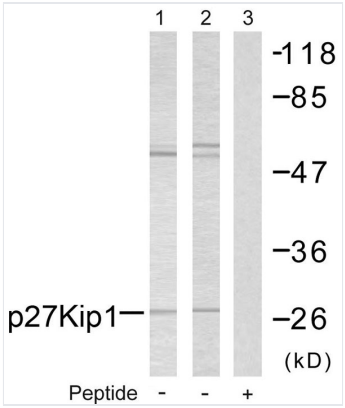
p27 KIP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	p27 Kip1, Polyclonal Antibody
Full Product Name	p27 Kip1 Antibody
Product Gene Name	anti-p27 Kip1 antibody
Product Synonym Gene Name	CDKN1B
Product Synonym Names	CDKN1B; CDN1B; Cyclin-dependent kinase inhibitor 1B; Cyclin-dependent kinase inhibitor p27; KIP1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	p27 Kip1 Antibody detects endogenous levels of total p27 Kip1 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	22 kDa
OMIM	U10906 mRNA
3D Structure	ModBase 3D Structure for P46527
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human p27 Kip1.
Immunogen Range	Jan-50
Applications Tested/Suitable for anti-p27 Kip1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-p27 Kip1 antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:10000
Related Product Information for anti-p27 Kip1 antibody	MBS9504228 is an antibody targeting p27 Kip1. Also known as p27 Kip1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-p27 Kip1 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.



Immunohistochemistry (IHC) of anti-p27 Kip1 antibody
Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using p27 Kip1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot (WB) of anti-p27 Kip1 antibody
Western blot analysis of lysates from A2780 cells, using p27 Kip1 Antibody. The lane on the right is blocked with the synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p27 Kip1. 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_004064.4
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
UniProt Gene Name	CDKN1B
UniProt Synonym Gene Names	KIP1
NCBI Protein Information	cyclin-dependent kinase inhibitor 1B
NCBI Summary for p27 Kip1	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 p27 Kip1	Important regulator of cell cycle progression. Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA (PubMed:28666995). Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A-CDK2 complexes. Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type D-CDK4 complexes depending on its phosphorylation state and/or stoichometry.

Research Articles on p27 Kip1	**1.** Upon binding to p27(Kip1) 3'UTR, CPEB1 promotes elongation of poly-A tail and the subsequent translation of p27(Kip1) mRNA. This leads to higher levels of p27(Kip1) in the cell, in turn significantly inhibiting cell proliferation, and confers to CPEB1 a potential value as a tumor suppressor in Glioblastoma.
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-mouse-rat-antibody/p27-kip1/9504228