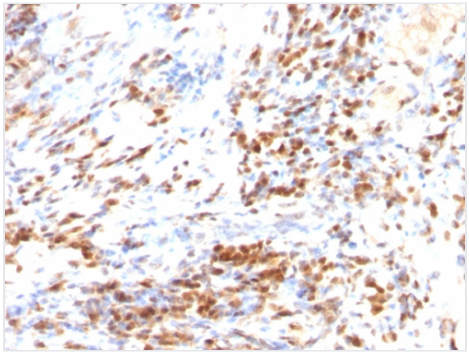
P27kip1 (CDKN1B) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	p27Kip1 (CDKN1B), Monoclonal Antibody
Full Product Name	p27Kip1 (Mitotic Inhibitor/Suppressor Protein) Mouse Monoclonal Antibody
Product Gene Name	anti-CDKN1B antibody
Product Synonym Names	CDKN1B, CDKN4, Cyclin Dependent Kinase Inhibitor 1B, Cyclin-dependent kinase inhibitor p27 Kip1, KIP1, MEN1B, MEN4
Clonality	Monoclonal
Isotype	IgG
Clone Number	DCS-72.F6 + KIP1/769
Host	Mouse
Species Reactivity	Human, Monkey, Mouse, Rat. Others not known
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Specificity	Recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. Its epitope spans between aa 83-204 of p27. It is highly specific and shows no cross-reaction with other related mitotic inhibitors. p27Kip1 functions as a negative regulator of G1 progression and has been proposed to function as a possible mediator of TGF- induced G1 arrest. p27Kip1 is a candidate tumor suppressor gene. This MAb co-precipitates cdk4 in complex p27Kip1 and is excellent for staining of formalin-fixed tissues.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Molecular Weight	25-26kDa
OMIM	600778
3D Structure	ModBase 3D Structure for P46527
Cellular Localization	Nuclear
Immunogen	Mouse recombinant p27 protein (DCS-72.F6); Recombinant human CDKN1B protein (KIP1/769)
Hu-Chromosome Location	12p13.1
Positive Control	ZR75, T47D, SK-BR-3, MDA-MB-231, HeLa or MCF7 cells. Tonsil, Breast, Cervical or Colon Carcinoma.
Applications Tested/Suitable for anti-CDKN1B antibody	Flow Cytometry (FC/FACS), Immunofluorescence (IF), Western Blot (WB), Immunohistochemistry (IHC) Formalin
Application Notes for anti-CDKN1B antibody	Flow Cytometry (0.5-1ug/million cells in 0.1ml) Immunofluorescence (0.5-1ug/ml) Western Blot (0.5-1ug/ml) Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)
Related Product Information for anti-CDKN1B antibody	MBS438591 is an antibody targeting CDKN1B. Also known as p27Kip1 (Mitotic Inhibitor/Suppressor Protein) Mouse Monoclonal Antibody. Reactive in Human, Monkey, Mouse, Rat. Others not known. Host: Mouse.

Product References and Citations for anti-CDKN1B antibody	Fredersdorf S et. al. Proc Natl Acad Sci 1997;94:6380-5
Other Notes	Small volumes of anti-CDKN1B 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-CDKN1B antibody
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with p27 Monoclonal Antibody (DCS-72.F6 + KIP1/769)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN1B. 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; 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 CDKN1B	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 CDKN1B	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: Inhibitor; Protein kinase, regulatory subunit; Oncoprotein; Cell cycle regulation Chromosomal Location of Human Ortholog: 12p13.1-p12 Cellular Component: cytoplasm; cytosol; nucleoplasm; nucleus Molecular Function: caspase activator activity; cyclin-dependent protein kinase inhibitor activity; protein binding; protein phosphatase binding; transforming growth factor beta receptor, cytoplasmic mediator activity Biological Process: autophagic cell death; caspase activation; cell cycle arrest; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; G1/S transition of mitotic cell cycle; negative regulation of cell growth; negative regulation of cell proliferation; negative regulation of kinase activity; negative regulation of mitotic cell cycle; negative regulation of phosphorylation; negative regulation of transcription, DNA-dependent; positive regulation of cell cycle; positive regulation of protein catabolic process; regulation of cyclin-dependent protein kinase activity Disease: Multiple Endocrine Neoplasia, Type Iv
Research Articles on CDKN1B	**1.** These findings provide further evidence that histatin 3 may be involved in the regulation of cell proliferation, particularly during G1/S transition, via the ubiquitin-proteasome system of p27(Kip1) and HSC70.
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