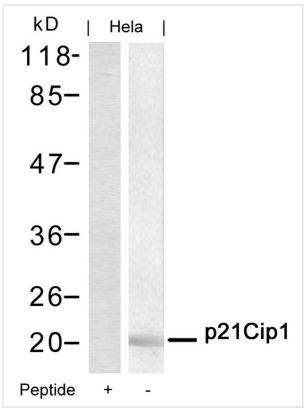
p21Cip1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	p21Cip1, Polyclonal Antibody
Full Product Name	p21Cip1 (Ab-145) Antibody
Product Gene Name	anti-p21Cip1 antibody
Product Synonym Names	CAP20; CDK-interacting protein 1; CDKN1; CDKN1A; CDN1A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total p21Cip1 protein.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	18,119 Da
OMIM	116899
3D Structure	ModBase 3D Structure for P38936
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.143~147 (R-Q-T-S-M) derived from Human p21Cip1.
Target Name	p21Cip1
Product Categories/Family for anti-p21Cip1 antibody	Total protein Ab
Applications Tested/Suitable for anti-p21Cip1 antibody	Western Blot (WB)
Application Notes for anti-p21Cip1 antibody	Western blotting: 1:500~1:1000
Related Product Information for anti-p21Cip1 antibody	May be the important intermediate by which p53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression.
Other Notes	Small volumes of anti-p21Cip1 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 p21Cip1 purchase	MBS9401455 is an antibody targeting p21Cip1. Also known as p21Cip1 (Ab-145) Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-p21Cip1 antibody
Western blot analysis of extracts from Hela cells using p21Cip1(Ab-145) Antibody and the same antibody preincubated with blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p21Cip1. It may not necessarily be applicable to this product.

NCBI GI #	11386203
NCBI GeneID	1026
NCBI Accession #	NP_000380.1
UniProt Primary Accession #	P38936
UniProt Secondary Accession #	Q14010; Q6FI05; Q9BUT4
UniProt Related Accession #	P38936
GenBank Nucleotide #	NM_000389.4
NCBI Official Full Name	cyclin-dependent kinase inhibitor 1 isoform 1
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
NCBI Official Symbol	CDKN1A
NCBI Official Synonym Symbols	P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1
UniProt Protein Name	Cyclin-dependent kinase inhibitor 1
UniProt Synonym Protein Names	CDK-interacting protein 1; Melanoma differentiation-associated protein 6; MDA-6; p21
UniProt Gene Name	CDKN1A
UniProt Synonym Gene Names	CAP20; CDKN1; CIP1; MDA6; PIC1; SDI1; WAF1; MDA-6
UniProt Entry Name	CDN1A_HUMAN
NCBI Protein Information	cyclin-dependent kinase inhibitor 1
NCBI Summary for p21Cip1	This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Multiple alternatively spliced variants have been found for this gene. [provided by RefSeq, Nov 2010]

UniProt Comments for p21Cip1	p21Cip1: a cell-cycle regulatory protein that Interacts with cyclin-CDK2 and -CDK4, inhibiting cell cycle progression at G1. Its expression is tightly controlled by p53, through which this protein mediates the p53-dependent cell cycle arrest at G1 phase. Protein type: Cell cycle regulation; Inhibitor Chromosomal Location of Human Ortholog: 6p21.2 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; perinuclear region of cytoplasm; cyclin-dependent protein kinase holoenzyme complex; cytosol; nucleus Molecular Function: cyclin-dependent protein kinase inhibitor activity; cyclin binding; protein binding; cyclin-dependent protein kinase activating kinase activity; metal ion binding; ubiquitin protein ligase binding; protein complex binding Biological Process: nerve growth factor receptor signaling pathway; response to arsenic; response to toxin; protein amino acid phosphorylation; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; negative regulation of cell proliferation; positive regulation of fibroblast proliferation; positive regulation of B cell proliferation; G2/M transition of mitotic cell cycle; cell cycle arrest; DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis; response to corticosterone stimulus; response to X-ray; response to drug; epidermal growth factor receptor signaling pathway; organ regeneration; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; negative regulation of cyclin-dependent protein kinase activity; response to organic nitrogen; positive regulation of programmed cell death; response to hyperoxia; positive regulation of protein kinase activity; Ras protein signal transduction; cellular response to extracellular stimulus; negative regulation of phosphorylation; innate immune response; regulation of protein import into nucleus, translocation; mitotic cell cycle; regulation of cyclin-dependent protein kinase activity; negative regulation of cell growth; response to DNA damage stimulus; negative regulation of apoptosis; G1/S transition of mitotic cell cycle
Research Articles on p21Cip1	**1.** no association between rs1059234 polymorphism of p21 gene and risk of endometrial cancer
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