



Mouse Anti-Human p21 monoclonal antibody, clone JID132 (CABT-L2847)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human p21
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID132
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Colon
Format	Liquid
Size	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	p21, also known as p21Cip1 , p21Waf1, cyclin-dependent kinase inhibitor 1, or CDK-interacting protein 1, functions to regulate cell cycle progression at G1 by inhibiting the activity of Cyclin-CDK2 or -CDK4 complexes. This cyclin-dependent kinase inhibitor is expressed in all adult human tissues, and decreased expression of p21 is linked to poor prognosis in a number of carcinomas including gastric carcinoma, non-small cell lung carcinoma and thyroid carcinoma. p21 is also associated with favourable prognosis in several tumors.
Keywords	CDKN1A;cyclin-dependent kinase inhibitor 1A (p21, Cip1);P21;CIP1;SDI1;WAF1;CAP20;CDKN1;MDA-6;p21CIP1

GENE INFORMATION

Gene Name	CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip1) [Homo sapiens (human)]
Official Symbol	CDKN1A
Synonyms	CDKN1A; cyclin-dependent kinase inhibitor 1A (p21, Cip1); P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1; cyclin-dependent kinase inhibitor 1; DNA synthesis inhibitor; CDK-interacting protein 1; CDK-interaction protein 1; wild-type p53-activated fragment 1; melanoma differentiation associated protein 6;
Entrez Gene ID	1026
Protein Refseq	NP_000380
UniProt ID	A0A024RCX5
Chromosome Location	6p21.2
Pathway	AKT phosphorylates targets in the cytosol; AMPK signaling; Adaptive Immune System; Adipogenesis; AhR pathway; Alpha6-Beta4 Integrin Signaling Pathway; Androgen receptor signaling pathway; Angiopoietin receptor Tie2-mediated signaling;
Function	cyclin binding; cyclin-dependent protein kinase activating kinase activity; cyclin-dependent protein serine/threonine kinase inhibitor activity; metal ion binding; protein binding; protein complex binding; ubiquitin protein ligase binding;