



Rabbit Anti-Human p21 monoclonal antibody, clone S.330.7 (CABT-L1237)

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

PRODUCT INFORMATION

Target	CDKN1A
Immunogen	Synthetic peptide corresponding to residues near the carboxy-terminus of human p21
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Dog, Human, Non-human primate
Clone	S.330.7
Purification	Affinity Purified
Conjugate	Unconjugated
Applications	FC, ICC, IHC-P, IP, IF, WB
Format	Liquid
Buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/ml BSA, 50% glycerol
Preservative	See individual product datasheet
Storage	-20°C

BACKGROUND

Introduction	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
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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. Two alternatively spliced variants, which encode an identical protein, have been reported.

Keywords

CDKN1A;cyclin-dependent kinase inhibitor 1A (p21, Cip1);P21;CIP1;SDI1;WAF1;CAP20;CDKN1;MDA-6;p21CIP1

GENE INFORMATION

Entrez Gene ID

[1026](#)

UniProt ID

[P38936](#)
