



Rabbit Anti-Human CDKN1A (Phospho-Thr145) polyclonal antibody (CABT-L3410)

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

PRODUCT INFORMATION

Product Overview	Rabbit Anti-Human Rel (Phospho-Ser503) polyclonal antibody. This antibody detects endogenous levels of p21 Cip1 only when phosphorylated at Thr145.
Specificity	Target Modification: Phospho. Modification Sites: Human: T145; Mouse: T140; Rat: T145
Target	Human p21 Cip1 (Phospho-Thr145)
Immunogen	The antiserum was produced against synthesized peptide derived from human p21 Cip1 around the phosphorylation site of Thr145. Immunogen range: 111-160
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purification	Affinity Purified
Conjugate	Unconjugated
Applications	WB, IHC, ELISA
Molecular Weight	17 kDa
Preparation	The antibody was purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Format	Liquid

Concentration	Lot specific
Size	50 µl
Buffer	Rabbit IgG in PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl and 50% glycerol.
Preservative	0.02% Sodium Azide
Storage	Stable at -20°C for at least 1 year.
Ship	Wet ice

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 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.

Keywords 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;

GENE INFORMATION

Gene Name	CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip1) [Homo sapiens (human)]
Official Symbol	CDKN1A
Synonyms	CAP20, CDK-interacting protein 1, CDKN1, CDKN1A, CDN1A, CIP1, Cyclin-dependent kinase inhibitor 1, MDA-6, MDA6, Melanoma differentiation associated protein, Melanoma differentiation associated protein 6, p21, PIC1, SDI1, WAF1
Entrez Gene ID	1026
UniProt ID	P38936