



# Anti-CDKN1A monoclonal antibody, clone 603DU22.5.5 (DCABY-1061)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes a potent cyclin-dependent kinaseinhibitor. The encoded protein binds to and inhibits the activityof cyclin-CDK2 or -CDK4 complexes, and thus functions as aregulator of cell cycle progression at G1. The expression of thisgene is tightly controlled by the tumor suppressor protein p53,through which this protein mediates the p53-dependent cell cycle G1phase arrest in response to a variety of stress stimuli. Thisprotein can interact with proliferating cell nuclear antigen(PCNA), a DNA polymerase accessory factor, and plays a regulatoryrole in S phase DNA replication and DNA damage repair. This proteinwas reported to be specifically cleaved by CASP3-like caspases,which thus leads to a dramatic activation of CDK2, and may beinstrumental in the execution of apoptosis following caspaseactivation. Multiple alternatively spliced variants have been foundfor this gene.
<b>Specificity</b>	This CDKN1A antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 117-146 amino acids from the C-terminal region of human CDKN1A.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	603DU22.5.5
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Molecular Weight</b>	18119 Da
<b>Format</b>	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

<b>Size</b>	100 µl
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Ship</b>	Blue ice

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip1) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CDKN1A
<b>Synonyms</b>	CDKN1A; CAP20; CDKN1; CIP1; MDA6; PIC1; SDI1; WAF1; Cyclin-dependent kinase inhibitor 1; CDK-interacting protein 1; Melanoma differentiation-associated protein 6; p21
<b>Entrez Gene ID</b>	<a href="#">1026</a>
<b>Protein Refseq</b>	<a href="#">NP_000380</a>
<b>UniProt ID</b>	<a href="#">A0A024RCX5</a>
<b>Chromosome Location</b>	6p21.2
<b>Pathway</b>	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;
<b>Function</b>	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