



# Anti-CDKN1A (full length) polyclonal antibody (DPAB-DC159)

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 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.
<b>Immunogen</b>	CDKN1A (AAH00312, 1 a.a. ~ 164 a.a) full-length recombinant protein with GST tag. The sequence is MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLE GDFAWERVRLGLPKLYLPTGPRRGRDELGGGRRPGTSPALLQGTAEEDHVDLSLCTLV PRSGEQAEGSPGGPGDSQGRKRRQTSMTDFYHSKRRLIFSKRKP
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

Gene Name	<a href="#">CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip1) [ Homo sapiens (human) ]</a>
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	<a href="#">1026</a>
Protein Refseq	<a href="#">NP_000380</a>
UniProt ID	<a href="#">A0A024RCX5</a>
Chromosome Location	6p21.2
Pathway	AKT phosphorylates targets in the cytosol; Adaptive Immune System; AhR pathway; Androgen receptor signaling pathway
Function	cyclin binding; cyclin-dependent protein kinase activating kinase activity; cyclin-dependent protein serine/threonine kinase inhibitor activity; metal ion binding