



# Anti-CDKN1A monoclonal antibody, clone HU2143 (DCABH-7892)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to p21
<b>Antigen Description</b>	May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex.
<b>Immunogen</b>	Recombinant fragment within Human p21 aa 1-164. The exact sequence is proprietary. Database link: P42771
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	HU2143
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ICC/IF, WB
<b>Positive Control</b>	30 µM Cisplatin treated HCT116 cells; 30 µM Cisplatin treated HCT116 cell lysates.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	Constituent: 100% PBS

<b>Preservative</b>	None
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Ship</b>	Shipped at 4°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip1) [ Homo sapiens ]</a>
<b>Official Symbol</b>	CDKN1A
<b>Synonyms</b>	CDKN1A; cyclin-dependent kinase inhibitor 1A (p21, Cip1); CDKN1; cyclin-dependent kinase inhibitor 1; CAP20; CIP1; P21; p21CIP1; p21Cip1/Waf1; SDI1; WAF1; DNA synthesis inhibitor; CDK-interacting protein 1; CDK-interaction protein 1; wild-type p53-activat
<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>	6p21.1
<b>Pathway</b>	AKT phosphorylates targets in the cytosol, organism-specific biosystem; AMPK signaling, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Bladder cancer, organism-specific biosystem;
<b>Function</b>	cyclin binding; cyclin-dependent protein kinase activating kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase inhibitor activity; kinase activity; metal ion binding; protein