



Anti-CDKN1A polyclonal antibody (DPABH-13830)

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

PRODUCT INFORMATION

Antigen Description	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.
Specificity	Detects a clean band at 21kDa corresponding to p21, as well as a cross-reacting band at 26kDa.
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 100 to the C-terminus of Human p21.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Cow, Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	ICC/IF, Sandwich ELISA, WB, IHC-P
Format	Liquid
Size	100 µg
Buffer	Constituents: 1% BSA, PBS, pH 7.4

Preservative	0.02% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip2) [Homo sapiens]
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	1026
Protein Refseq	NP_000380.1
UniProt ID	A0A024RCX5
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