



p21Cip1 (Phospho Thr57) Rabbit pAb

Catalog No	YP-Ab-17653
Isotype	IgG
Reactivity	Human, Mouse
Applications	IHC, WB
Gene Name	CDKN1A CAP20 CDKN1 CIP1 MDA6 PIC1 SDI1 WAF1
Immunogen	Synthesized peptide derived from human p21Cip1 (Phospho Thr57)
Specificity	This antibody detects endogenous levels of p21Cip1 (Phospho Thr57) Rabbit pAb at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Rabbit, polyclonal
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000 IHC 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CAP2;CDK-interacting protein 1;CDKI;CDKN1;Cdkn1a;CDN1A_HUMAN;CIP1; Cyclin Dependent Kinase Inhibitor 1A;Cyclin-dependent kinase inhibitor 1;Cyclin-dependent kinase inhibitor 1A (P21);Cyclin-dependent kinase inhibitor 1A (p21; Cip1);DNA Synthesis Inhibitor;MDA-6;MDA6;Melanoma differentiation-associated protein 6;Melanoma differentiation-associated protein;p21;P21 protein;p21CIP1;p21Cip1/Waf1;p21WAF;PIC1;SDI1;SLC12A9;WAF1;Wild type p53 activated fragment 1 (WAF1);Wild type p53 activated fragment 1;Wildtype p53-activated fragment 1;CDKN1A CAP20 CDKN1 CIP1 MDA6 PIC1 SDI1 WAF1;Cyclin-dependent kinase inhibitor 1 (CDK-interacting protein 1) (Melanoma differentiation-associated protein 6) (MDA-6) (p21)
Observed Band	21kD
Calculated Molecular Weight	21kD
Cell Pathway	Cytoplasm . Nucleus .
Tissue Specificity	Expressed in all adult tissues, with 5-fold lower levels observed in the brain.
Function	function:May be the important intermediate by which p53 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.,
induction:By p53, mezerein (antileukemic compound) and interferon beta.,
PTM:Phosphorylation of Thr-145 by Akt or of Ser-146 by PKC impairs binding to PCNA.,similarity:Belongs to the CDI family.,tissue specificity:Expressed in all adult human tissues, with 5-fold lower levels observed in the brain.,

Background

cyclin dependent kinase inhibitor 1A(CDKN1A) Homo sapiens This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 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, 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 cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lac

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of 1 HeLa cell, 2 LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000