www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

Anti-p21/CIP1/WAF1 Antibody

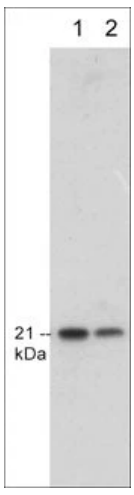
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:CM5131)
Conjugate	Unconjugated
Isotype	IgG2a
Clone	M513
Gene Name	CDKN1A
Host Species	Mouse
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IHC, IP, WB
Dilution Ranges	WB: 1:500 IHC: 1:50 ICC: 1:50 IP: 1:50
Species Reactivity	Human
Immunogen	Clone M513 was generated from a full length recombinant human p21 protein. The antibody detects human p21.
Specificity	The antibody detects a 21 kDa* protein corresponding to the apparent molecular mass of p21 on SDS-PAGE immunoblots of human endothelial cells (HUVEC), HeLa cells, and Fibroblasts. The antibody is also useful for immunoprecipitation and immunofluorescent labeling in human cells.
Molecular Weight	21
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P38936 UniProt Summary: Plays an important role in controlling cell cycle progression and DNA damage-induced G2 arrest. Involved in p53/TP53 mediated inhibition of cellular proliferation in response to DNA damage. Also involved in p53-independent DNA damage-induced G2 arrest mediated by CREB3L1 in astrocytes and osteoblasts. 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. Inhibits DNA synthesis by DNA polymerase delta by competing with POLD3 for PCNA binding. Negatively regulates the CDK4- and CDK6-driven phosphorylation of RB1 in keratinocytes, thereby resulting in the release of E2F1 and subsequent transcription of E2F1-driven G1/S phase promoting genes.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	1026

Product Images



Western blot analysis of p21 expression in human endothelial cells (lanes 1 & 2). The blots were probed with mouse monoclonal anti-p21 at 1:250 (lane 1) and 1:1000 (lane 2).

Created on 20. November 2026 | All information without guarantee