

Catalog Number	PA-RR 000009
Batch Number(s):	PA-B-00001-RR-P21
Product Name	Rabbit anti-Human p21 Recombinant Monoclonal (BLR022N)

PRODUCT SPECIFICATION

Host	Rabbit
Colonicity	Recombinant Monoclonal
Subclass	IgG
Immunogen	Immunogen was a peptide in region between residue 62 and 112, referencing both Uniprot ID P38936 and Gene ID 1026.
Conjugate	Unconjugated
Form	Liquid
Concentration	1.00 mg/mL
Purification	Affinity chromatography
Storage Buffer	Phosphate Buffer Saline, 10mM, pH 7.4
Preservative	Azide
Cryopreservative	Glycerol
Storage conditions	4°C. Avoid freeze/thaw cycles

APPLICATIONS

Western Blotting	1:250-1:1000
Immunocytochemistry / Microscopy	1:250-1:1000

PRODUCT DESCRIPTION

P21 (aCDKN1A) is a key regulatory protein involved in DNA repair and cell cycle control. It mediates cell cycle arrest by inhibiting CDKs (CDK2, CDK4, CDK6), providing time for DNA repair and reducing errors. P21 coordinates repair pathways like homologous recombination and interacts with proteins like PCNA to enhance repair efficiency. It also protects against apoptosis, aiding cell survival during repairs. Overall, P21 is vital for maintaining genomic integrity and stability.

Uniprot ID	P38936
Gene ID	1026
Gene Symbol	P21
Gene Aliases	CDKN1A; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1

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