

Product Datasheet

p21 Antibody



Catalog No: CY5088

Reactivity: Human

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF IP

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Information

UniProt ID: P38936

All Names: CAP20; CDKN1; CIP1; MDA-6; P21; SDI1; WAF1; p21CIP1

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 21 kDa

Application

WB: 1:500~1:2000

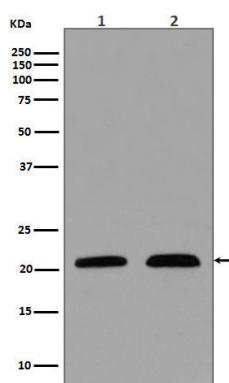
IHC: 1:50~1:200

ICC/IF: 1:50~1:200

IP: 1:50

Background

The tumor suppressor protein p21 Waf1/Cip1 acts as an inhibitor of cell cycle progression. It functions in stoichiometric relationships forming heterotrimeric complexes with cyclins and cyclin-dependent kinases. In association with CDK2 complexes, it serves to inhibit kinase activity and block progression through G1/S. However, p21 may also enhance assembly and activity in complexes of CDK4 or CDK6 and cyclin D. The carboxy-terminal region of p21 is sufficient to bind and inhibit PCNA, a subunit of DNA polymerase, and may coordinate DNA replication with cell cycle progression. Upon UV damage or during cell cycle stages when cdc2/cyclin B or CDK2/cyclin A is active, p53 is phosphorylated and upregulates p21 transcription via a p53-responsive element. Protein levels of p21 are downregulated through ubiquitination and proteasomal degradation.



Western blot analysis of p21 in (1)MCF-7 cell lysate;
(2)LnCaP cell lysate.

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