

p21 Cip1 antibody [GT1032]

Cat. No. GTX629543

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Application	WB, ICC/IF, IHC-P, FACS, IP
Reactivity	Human, Mouse

Reference (21)

★★★★☆ Review (4)

Package

100 µl, 25 µl

PRODUCT

Summary

p21 (Cip1) antibody recognizes p21^{Cip1} protein, a cyclin-dependent kinase inhibitor with a predicted molecular weight of 18 kDa. p21 is a major downstream regulator of p53 activity in response to DNA damage to control cell cycle arrest. p21 also interacts with proliferating cell nuclear antigen (PCNA) to inhibit PCNA-dependent S-phase DNA synthesis.

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:1000
IHC-P	Assay dependent
FACS	Assay dependent
IP	1:100-1:500

Not tested in other applications.

Calculated MW 18 kDa. ([Note](#))

PROPERTIES

Form	Liquid
Buffer	PBS
Preservative	No preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1.45 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Recombinant protein encompassing a sequence within the center region of human p21 Cip1. The exact sequence is proprietary.



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Purification Affinity purified by Protein A.

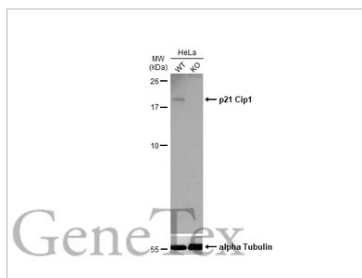
Conjugation Unconjugated

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Note

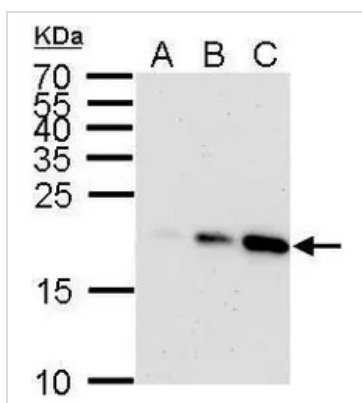
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DATA IMAGES



GTX629543 WB Image

Wild-type (WT) and p21 Cip1 knockout (KO) HeLa cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with p21 Cip1 antibody [GT1032] (GTX629543) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



GTX629543 WB Image

p21 Cip1 antibody [GT1032] detects p21 Cip1 protein by western blot analysis.

A. 30 µg HCT116 whole cell lysate/extract (untreated)

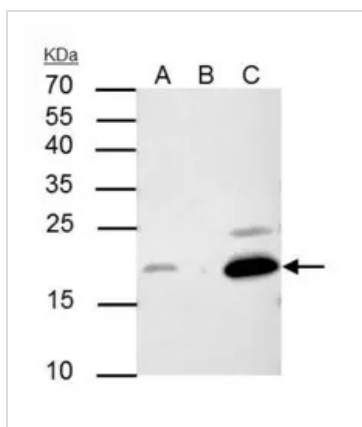
B. 30 µg HCT116 whole cell lysate/extract (30 µM Cisplatin treatment for 24 hr)

C. 30 µg HCT116 whole cell lysate/extract (30 µM Cisplatin treatment for 48 hr)

15% SDS-PAGE

p21 Cip1 antibody [GT1032] (GTX629543) dilution: 1:1000

The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX629543 IP Image

p21 Cip1 antibody [GT1032] immunoprecipitates CDKN1A protein in IP experiments.

IP samples: HCT-116 whole cell extract treat with 30uM cisplatin for 48 hr

A. 30 µg HCT-116 whole cell extract treat with 30uM cisplatin for 48 hr

B. Control with 4 µg of preimmune Mouse IgG

C. Immunoprecipitation of CDKN1A protein by 4 µg p21 Cip1 antibody [GT1032] (GTX629543)

15 % SDS-PAGE

The immunoprecipitated CDKN1A protein was detected by p21 Cip1 antibody [GT1032] (GTX629543) diluted at 1:1000.

[EasyBlot anti-mouse IgG (GTX221667-01) was used as a secondary reagent]



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