

Product Datasheet

p21 Cip1 antibody [GT1032] GRP80

Description

This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 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 (PCNA), 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 CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Two alternatively spliced variants, which encode an identical protein, have been reported. [provided by RefSeq]

Species/Host

Mouse

Reactivity

Human, Mouse

Conjugation

Unconjugated

Tested Applications

ICC, IF, IP, WB

Immunogen

Recombinant protein encompassing a sequence within the center region of human p21 Cip1. The exact sequence is proprietary.

Form/Appearance

Liquid: PBS

Concentration

1.45 mg/ml

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.

Note

For research use only.

Isotype

IgG2a

Clonality

Monoclonal

Purity

Affinity purified by Protein A.

Clone ID

GT1032

Uniprot ID

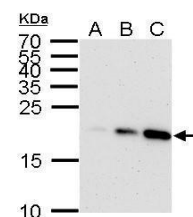
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Entrez

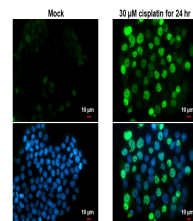
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Dilution Range

WB: 1:500-1:3000, ICC: 1:100-1:1000, IP: 1:100-1:500



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/



p21 Cip1 antibody [GT1032] detects p21 Cip1 protein at nucleus by immunofluorescent analysis. Sample: Mock and treated HCT116 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: p21