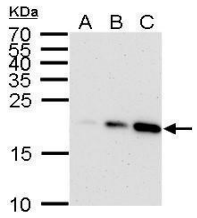
German Research Products - GRP GmbH
In der Stockwiese 26
D-85410 Haag/Amper, Germany
Email: info@grp-ak.de
Phone: +49 (0)8167 6335

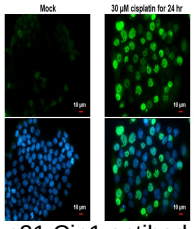
Product Datasheet

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 cente 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 openin 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	**P38936**
Entrez	**1026**
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 ?g HCT116 whole cell lysate/extract (untreated)B. 30 ?g HCT116 whole cell lysate/extract (30 ?M Cisplatin treatment for 24 hr)C. 30 ?g 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