



Recombinant

DGRmAb[®]

p21 (DGR15110) Rabbit mAb

db15140 Package : 10μL 20μL 50μL 100μL

Product Name: p21 (DGR15110) Rabbit mAb

Cat.No.: db15140

Synonyms: P21; CDKI; CIP1; SDI1; Waf1; mda6; CAP20; Cdkn1; p21WAF; p21Cip1

Application: WB, IHC-P, ICC/IF, FC, IP

Reactivity : Mouse
Host species : Rabbit

Background This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and

inhibits the activity of cyclin-cyclin-dependent kinase2 or cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at the G1 pahse. 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, 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 cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Immunogen Recombinant protein of mouse p21

Gene ID 12575

Swiss Prot P39689

Synonyms P21; CDKI; CIP1; SDI1; Waf1; mda6; CAP20; Cdkn1; p21WAF; p21Cip1

Reactivity Mouse

Application WB, IHC-P, ICC/IF, FC, IP

Recommended dilution WB: 1:1000

IHC-P: 1:200-1:1000 ICC/IF: 1:200-1:500

FC: 1:20-1:50 IP: 1:20-1:50

Calculated MW 18 kDa





Observed MW 18 kDa

Host species Rabbit

Clonality Monoclonal

Clonality No. DGR15110

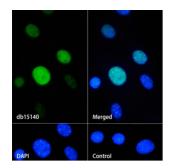
Isotype IgG

Purity Affinity Purification

Conjugation Un-conjugated

Storage Stability Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium

azide and 0.05% BSA. Stable for 12 months from date of receipt.



Immunofluorescence analysis of 3T3 cells labelling p21 with db15140.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db15140 (1:200) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit lgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.