



CDKN2A/p14ARF (DGR14390) Rabbit mAb

db15315 Package : 10μL 20μL 50μL 100μL

Product Name: CDKN2A/p14ARF (DGR14390) Rabbit mAb

Cat.No.: db15315

Synonyms: ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4l; CDKN2; INK4A; MTS-1; P14ARF;

P19ARF; P16INK4; P16INK4A; P16-INK4A

Application: WB, ICC/IF, FC, IP

Reactivity : Human

Host species : Rabbit

Background This gene generates several transcript variants which differ in their first exons. At least three

alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining

transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this

transcript contains an alternate open reading frame (ARF) that specifies a protein which is

structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, the E3 ubiquitin-protein

ligase MDM2, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene,

through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common

functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of

tumors, and is known to be an important tumor suppressor gene. [provided by RefSeq, Sep 2012]

Immunogen A synthetic peptide of human CDKN2A/p14ARF

Gene ID 1029

Swiss Prot Q8N726

Synonyms ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4I; CDKN2; INK4A; MTS-1; P14ARF;

P19ARF; P16INK4; P16INK4A; P16-INK4A

Reactivity Human

Application WB, ICC/IF, FC, IP

Recommended dilution WB: 1:1000

ICC/IF: 1:100-1:200

FC: 1:100 IP: 1:50-1:100





Calculated MW 14 kDa

Observed MW 14 kDa

Host species Rabbit

Clonality Monoclonal

Clonality No. DGR14390

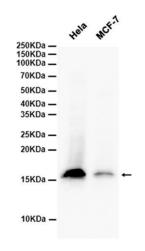
Isotype IgG

Purity Affinity Purification

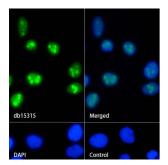
Conjugation Un-conjugated

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.



Western blot analysis of extracts from HeLa, MCF-7 cells using db15315 at 1:1000.



Immunofluorescence analysis of HeLa cells labelling CDKN2A/p14ARF with db15315.

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 db15315 (1:100) 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.