

Recombinant

DGRmAb®

**CDKN2A/p14ARF (DGR14390) Rabbit mAb (PBS Only)**

db15315-PBS

Package : 100µg

**Product Name** : CDKN2A/p14ARF (DGR14390) Rabbit mAb (PBS Only)**Cat.No.:** db15315-PBS**Synonyms** : ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4; 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; CDK4; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A

**Reactivity**

Human

**Application**

WB, ICC/IF, FC, IP

**Calculated MW**

14 kDa

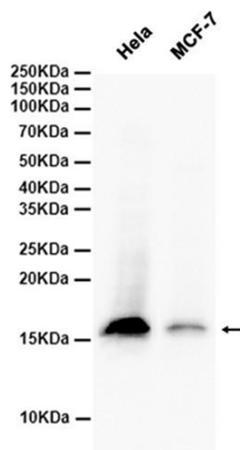
**Observed MW**

14 kDa

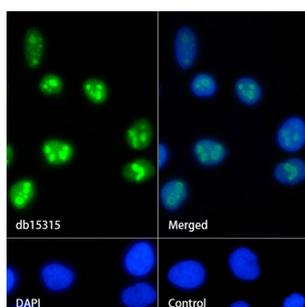
**Host species**

Rabbit

Clonality	Monoclonal
Clonality No.	DGR14390
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. 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 IgG (H+L)-AF488 [db10005](#), shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.