Recombinant DGRmAb®

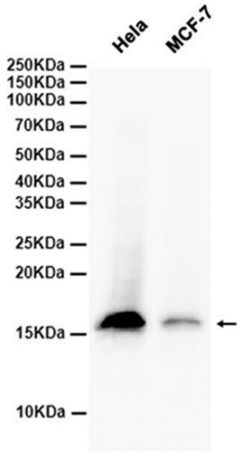
CDKN2A/p14ARF (DGR14390) Rabbit mAb

db15315 **Package : 10μL 20μL 50μL 100μL**

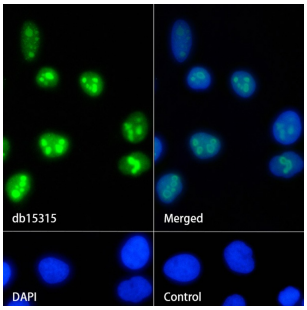
Product Name : CDKN2A/p14ARF (DGR14390) Rabbit mAb
Cat.No.: db15315
Synonyms : ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4I; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A
Application : WB, ICC/IF, FC, IP
Reactivity : Human
Host species : Rabbit

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 IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.