

[KO Validated] CDKN2A/p16INK4a Rabbit Monoclonal Antibody CAB11651



Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

16kDa

Calculated MW:

17kDa

Applications:

WB IHC IF

Reactivity:

Human

Antibody Information

Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50
- 1:200 IF 1:50 - 1:200

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein 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 information

Gene ID:

1029

Uniprot

P42771

Synonyms:

ARF; CDK4I; CDKN2; CMM2; INK4; INK4A; MLM; MTS-1; MTS1; P14;
P14ARF; P16; P16-INK4A; P16INK4; P16INK4A; P19; P19ARF; TP16

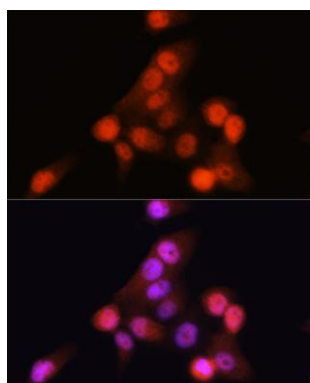
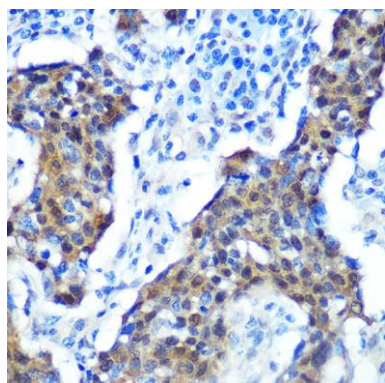
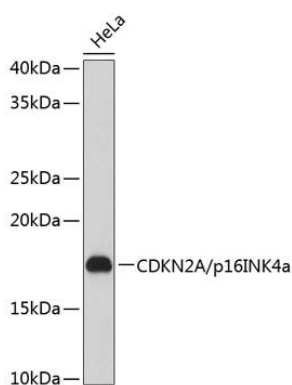
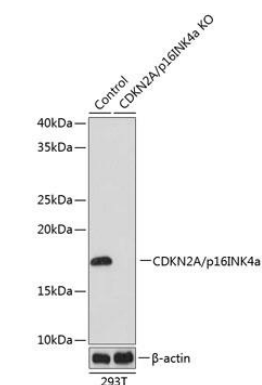
Immunogen:

A synthesized peptide derived from human CDKN2A/p16INK4a

Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Product Images



Western blot analysis of extracts from normal (control) and CDKN2A/p16INK4a knockout (KO) 293T cells, using CDKN2A/p16INK4a Rabbit mAb (CAB11651) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 3min.

Western blot analysis of extracts of HeLa cells, using CDKN2A/p16INK4a Rabbit mAb (CAB11651) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 3min.

Immunohistochemistry of paraffin-embedded human cervix cancer using CDKN2A/p16INK4a Rabbit mAb (CAB11651) at dilution of 1:100 (40x lens).

Immunofluorescence analysis of HeLa cells using CDKN2A/p16INK4a Rabbit mAb (CAB11651) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.