

## p16 INK4a/CDKN2A polyclonal antibody

Catalog: BS90998

Host: Rabbit

Reactivity: Human

### 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.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

17 kDa

### Swiss-Prot:

P42771(Human)

### Purification&Purity:

Peptide affinity purified.

### Applications:

WB:1:500

ICC:1:50-1:200

IHC:1:50-1:200

FC:1:50-1:100

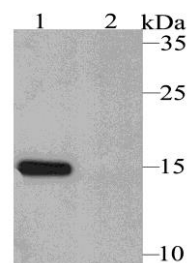
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

p16 INK4a/CDKN2A polyclonal antibody detects endogenous levels of p16 INK4a/CDKN2A protein.

### DATA:

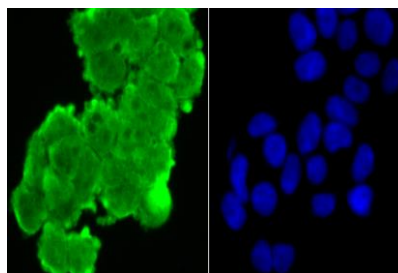


Western blot analysis of CDKN2A/p16INK4a on SiHa cell lysate using anti-CDKN2A/p16INK4a antibody at 1/500 dilution.

Positive control:

Lane1: SiHa cell lysate

Lane2: SiHa cell lysate with immunization peptide



ICC staining CDKN2A/p16INK4a in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

For research use only, not for use in diagnostic procedure.

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## PRODUCT DATA SHEET

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