

CDKN2A Polyclonal Antibody

Catalog No.	A11058	Category	Polyclonal Antibodies
Applications	WB, IF, IP	Observed MW	18kDa
Cross-reactivity	Human	Calculated MW	8kDa/11kDa/12kDa/13kDa/16kDa/17kDa

Immunogen Information

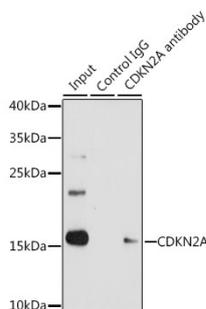
Immunogen	A synthetic peptide of human CDKN2A
Gene ID	1029
Swiss prot	P42771/Q8N726
Synonyms	CDKN2A; ARF; CDK4I; CDKN2; CMM2; INK4; INK4A; MLM; MTS-1; MTS1; P14; P14ARF; P16; P16-INK4A; P16INK4; P16INK4A; P19; P19ARF; TP16; cyclin-dependent kinase inhibitor 2A

Product information

Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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.



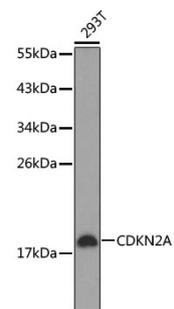
Immunoprecipitation - CDKN2A Polyclonal Antibody (A11058)

Recommended Dilutions

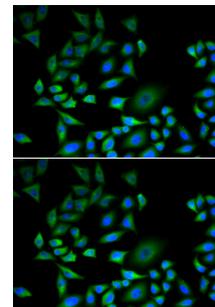
WB 1:500 -
1:2000

IF 1:50 -
1:200

IP 1:50 -
1:100



Western blot - CDKN2A Polyclonal Antibody (A11058)



Immunofluorescence - CDKN2A Polyclonal Antibody (A11058)