

---

**Product Name: p14 Rabbit Polyclonal Antibody****Catalog #: APRab15571**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	18kDa

**Antigen Information**

<b>Gene Name</b>	CDKN2A
<b>Alternative Names</b>	CDKN2A; CDKN2; MLM; Cyclin-dependent kinase inhibitor 2A; isoform 4; p14ARF; p19ARF
<b>Gene ID</b>	1029.0
<b>SwissProt ID</b>	Q8N726
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human p14 ARF. AA range:71-120

**Background**

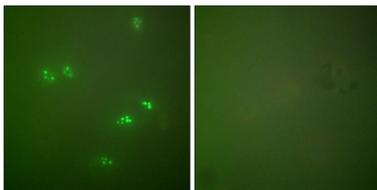
CDKN2A generates several transcript variants which differ in their first exons. At least three alternatively spliced variants

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 CDKN2A, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. CDKN2A is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene.

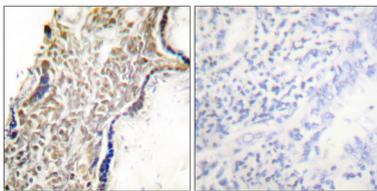
## Research Area

Stem cell pathway; Cell Cycle

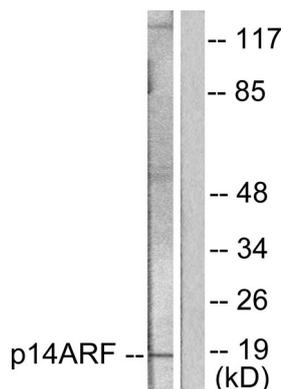
## Image Data



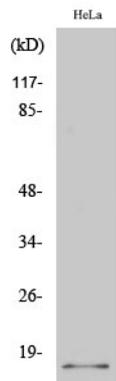
Immunofluorescence analysis of HeLa cells, using p14 ARF Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using p14 ARF Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using p14 ARF Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using p14 Polyclonal Antibody diluted at 1 : 500