

For Research Use Only

# P14-ARF Polyclonal antibody

Catalog Number: 31221-1-AP



## Basic Information

<b>Catalog Number:</b> 31221-1-AP	<b>GenBank Accession Number:</b> NM_058195	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1029	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8N726	
<b>Isotype:</b> IgG	<b>Full Name:</b> cyclin-dependent kinase inhibitor 2A	
<b>Immunogen Catalog Number:</b> AG33340	<b>Calculated MW:</b> 14kd <b>Observed MW:</b> 19 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells,
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human ovary cancer tissue,
	<b>IF/ICC :</b> HeLa cells,

## Background Information

CDKN2A locus on chromosome 9p21 encodes two transcripts/proteins INK4A and ARF. INK4A (also referred to as p16INK4A) specially blocks the CDK4 and CDK6 cyclin-dependent kinases that control the phosphorylation status of the retinoblastoma (RB) protein (PMID: 11584300, PMID: 8259215). ARF (known as p14ARF in human and p19ARF in mouse) has been designed as a positive regulator of p53 levels because, through its complexation with Mdm2 (HDM2 in human), it prevents mdm2-mediated cytoplasmic translocation and degradation of p53 (PMID: 9153396).

## Storage

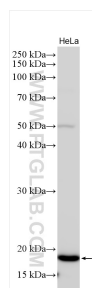
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

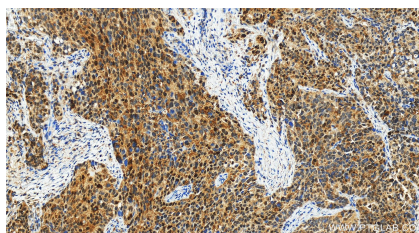
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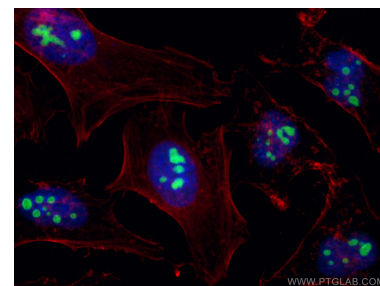
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 31221-1-AP (P14-ARF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 31221-1-AP (P14-ARF antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using P14-ARF antibody (31221-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).