

P14-ARF Polyclonal antibody

Catalog Number: 31221-1-AP

Basic Information

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

Applications

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

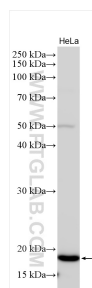
Background Information

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).

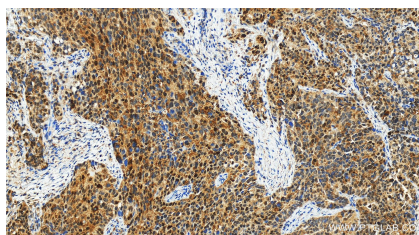
Storage

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

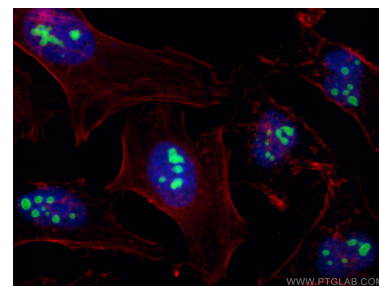
Selected Validation Data



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).