

Product datasheet for **TA336585**

p16INK4A (CDKN2A) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: 1:400, ELISA: 1:100-1:2000, Immunohistochemistry-Paraffin: 1:10-1:500, Knockdown Validated, Immunohistochemistry: 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Frozen: 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Western Blot
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a portion of human p14ARF (between residues 50-150). [Swiss-Prot# Q8N726]
Formulation:	PBS, 30% glycerol, 0.1% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	cyclin-dependent kinase inhibitor 2A
Database Link:	NP_000068 Entrez Gene 12578 Mouse Entrez Gene 1029 Human Q8N726
Background:	The INK4a-ARF locus is comprised of two tumor suppressors, p16INK4a and p14ARF. These two proteins are encoded through differential splicing of alternative first exons. The p16INK4a (exon 1 alpha) protein inhibits the cyclin D-dependent kinases (CDK) that control the phosphorylation of the Rb protein and cell proliferation. The p14ARF gene product complexes with the MDM2 protein within the nucleus, thus modulating the activity of the p53 protein. P14ARF is a potent tumor suppressor in the presence of wild-type p53, while mutant p53 substantially reduces growth inhibition by p14ARF.



[View online »](#)

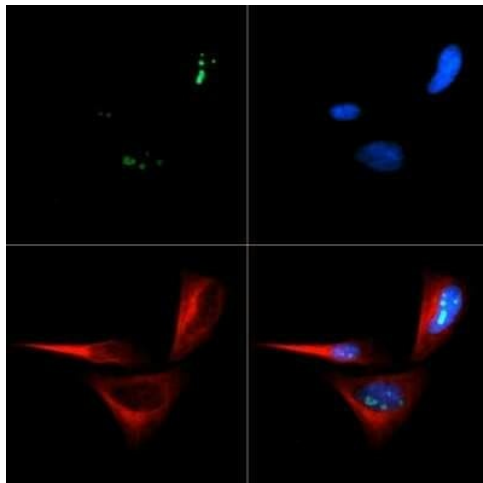
Synonyms: ARF; CDK4I; CDKN2; CMM2; INK4; INK4A; MLM; MTS-1; MTS1; P14; P14ARF; P16; P16-INK4A; P16INK4

Note: This p14ARF antibody is used for Western blotting, where a band is seen at where a band is seen at ~16 kDa, representing p14ARF (p14ARF tends to run slightly higher than the theoretical MW of 14 kDa). Additional faint bands may be seen at ~32 and 47 kDa. WB application of this product is mentioned in publication with PMID: 21636682. In ICC/IF, nuclear focal staining was observed in HeLa cells.

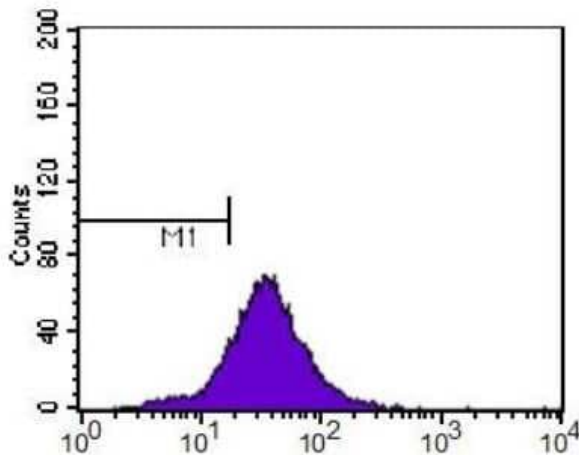
Protein Families: Druggable Genome

Protein Pathways: Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer

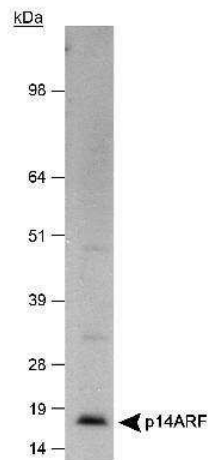
Product images:



Immunocytochemistry/Immunofluorescence: p14ARF/CDKN2A Antibody TA336585 - p14ARF antibody was tested in HeLa cells with Dylight 488 (green). Nuclei were counterstained with DAPI (blue). Tubulin was stained with alpha tubulin (red).



Flow Cytometry: p14ARF/CDKN2A Antibody TA336585 - p14ARF antibody was tested at 1:400 in HeLa cells using an Alexa Fluor 488 secondary (shown in purple). M1 is defined by unstained cells.



Western Blot: p14ARF/CDKN2A Antibody TA336585 - Analysis of HeLa Whole Cell Lysate (NB800-PC1) using p14ARF antibody (lot C) employing ECL detection method.