

Rabbit anti-Human, Rat p14 ARF Polyclonal Antibody | anti-CDKN2A antibody

p14 ARF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322114	Rabbit	Human, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

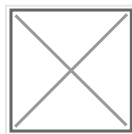
PRODUCT SYNONYMS

p14 ARF; Polyclonal Antibody; p14 ARF Antibody; ARF; CDK4 inhibitor p16 INK4; CDK4I; CDKN2; CDKN2A; Cell cycle negative regulator beta; CMM2; Cyclin dependent kinase 4 inhibitor A; Cyclin dependent kinase inhibitor 2A; INK4; INK4a; Melanoma p16 inhibits CDK4; MLM; MTS 1; MTS1; Multiple tumor suppressor 1; p14; p16; p16 INK4a; p16INK4a; p19; P19ARF; TP16; anti-CDKN2A antibody

PRODUCT SPECIFICATIONS

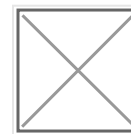
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	p14 ARF antibody detects endogenous levels of total p14 ARF
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	132
Applicable Applications for anti-CDKN2A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human p14 ARF
Subcellular Location	Nucleus; Mitochondrion
Predicted Cross Reactivity	Bovine, Horse, Rabbit, Dog
Similarity	Bovine (80%), Horse (80%), Rabbit (80%), Dog (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322114 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of p14 ARF expression in HeLa cell extract. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA322114 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA322114 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CDKN2A antibody

Description: The gene for CDK2NA generates several transcripts/proteins which differ from each other in their first exons.

Function: Capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a tumor suppressor. Binds to MDM2 and blocks its nucleocytoplasmic shuttling by sequestering it in the nucleolus. This inhibits the oncogenic action of MDM2 by blocking MDM2-induced degradation of p53 and enhancing p53-dependent transactivation and apoptosis. Also induces G2 arrest and apoptosis in a p53-independent manner by preventing the activation of cyclin B1/CDC2 complexes. Binds to BCL6 and down-regulates BCL6-induced transcriptional repression. Binds to E2F1 and MYC and blocks their transcriptional activator activity but has no effect on MYC transcriptional repression. Binds to TOP1/TOPOI and stimulates its activity. This complex binds to rRNA gene promoters and may play a role in rRNA transcription and/or maturation. Interacts with NPM1/B23 and promotes its polyubiquitination and degradation, thus inhibiting rRNA processing. Interacts with COMMD1 and promotes its 'Lys63'-linked polyubiquitination. Interacts with UBE2I/UBC9 and enhances sumoylation of a number of its binding partners including MDM2 and E2F1. Binds to HUWE1 and represses its ubiquitin ligase activity. May play a role in controlling cell proliferation and apoptosis during mammary gland development. Isoform smARF may be involved in regulation of autophagy and caspase-independent cell death; the short-lived mitochondrial isoform is stabilized by C1QBP.

Subunit Structure: Does not interact with cyclins, CDK1, CDK2, CDK4, CDK5 or CDK6. Binds to BCL6, E2F1, HUWE1, MDM2, MYC, NPM1/B23, TOP1/TOPOI and UBE2I/UBC9. Interacts with TBRG1 and COMMD1. Interacts with CDKN2AIP and E4F1. Interacts with CDK5RAP3 and MDM2; form a ternary complex involved in regulation of p53/TP53 (PubMed:16173922). Isoform smARF interacts with C1QBP. Interacts with NOP53; the interaction is direct and promotes ARF nucleoplasmic relocalization and ubiquitin-mediated proteasomal degradation (PubMed:27323397).

Post-translational Modifications: Ubiquitinated in normal cells by TRIP12 via the ubiquitin fusion degradation (UFD) pathway, a process that mediates ubiquitination at the N-terminus, regardless of the absence of lysine residues. Ubiquitination leads to its proteasomal degradation. In cancer cells, however, TRIP12 is located in a different cell compartment, preventing ubiquitination and degradation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	300863096
NCBI GeneID	1029
NCBI Accession #	NP_478102.2
NCBI GenBank Nucleotide #	NM_058195.3
UniProt Accession #	Q8N726; Q13195; Q13399; Q16360; Q7KZR9; D3DRK2; P42771
Molecular Weight	Observed: 17 kDa Predicted: 14 kDa
NCBI Official Full Name	cyclin-dependent kinase inhibitor 2A isoform p14ARF
NCBI Official Synonym Full Names	cyclin dependent kinase inhibitor 2A
NCBI Official Symbol	CDKN2A
NCBI Official Synonym Symbols	ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4I; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A
NCBI Protein Information	cyclin-dependent kinase inhibitor 2A

UniProt Protein Name	Tumor suppressor ARF
UniProt Gene Name	CDKN2A
UniProt Synonym Gene Names	CDKN2ImportedManual assertion inferred from database entriesiEMBL:AAC60649.1; MLM; ARF1 PublicationManual assertion based on opinion iniRef.9

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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