

## ARG63914 anti-p27 Kip1 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes p27 Kip1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cat, Cow, Dog, Pig
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	p27 Kip1
Species	Human
Immunogen	C-KRPATDDSTQNK
Conjugation	Un-conjugated
Alternate Names	Cyclin-dependent kinase inhibitor 1B; MEN4; KIP1; P27KIP1; Cyclin-dependent kinase inhibitor p27; p27Kip1; CDKN4; MEN1B

### Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/ml
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

#### Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

#### Database links

[GeneID: 1027 Human](#)

[Swiss-port # P46527 Human](#)

#### Background

This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. [provided by RefSeq, Jul 2008]

#### Research Area

Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody

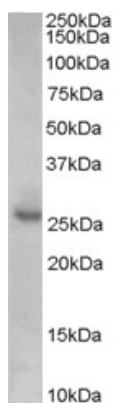
#### Calculated Mw

22 kDa

#### PTM

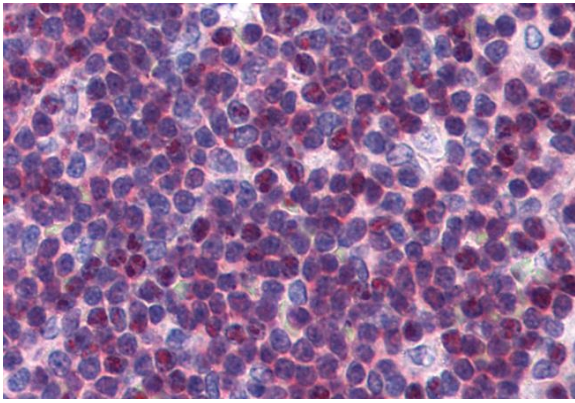
Phosphorylated; phosphorylation occurs on serine, threonine and tyrosine residues. Phosphorylation on Ser-10 is the major site of phosphorylation in resting cells, takes place at the G(0)-G(1) phase and leads to protein stability. Phosphorylation on other sites is greatly enhanced by mitogens, growth factors, cMYC and in certain cancer cell lines. The phosphorylated form found in the cytoplasm is inactivate. Phosphorylation on Thr-198 is required for interaction with 14-3-3 proteins. Phosphorylation on Thr-187, by CDK1 and CDK2 leads to protein ubiquitination and proteasomal degradation. Tyrosine phosphorylation promotes this process. Phosphorylation by PKB/AKT1 can be suppressed by LY294002, an inhibitor of the catalytic subunit of PI3K. Phosphorylation on Tyr-88 and Tyr-89 has no effect on binding CDK2, but is required for binding CDK4. Dephosphorylated on tyrosine residues by G-CSF. Ubiquitinated; in the cytoplasm by the KPC complex (composed of RNF123/KPC1 and UBAC1/KPC2) and, in the nucleus, by SCF(SKP2). The latter requires prior phosphorylation on Thr-187. Ubiquitinated; by a TRIM21-containing SCF(SKP2)-like complex; leads to its degradation. Subject to degradation in the lysosome. Interaction with SNX6 promotes lysosomal degradation (By similarity).

## Images



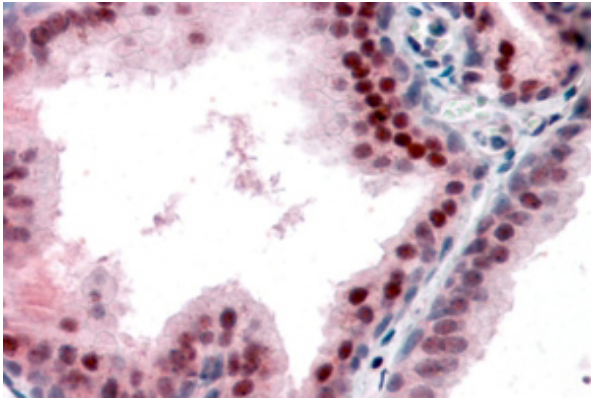
ARG63914 anti-KIP1 / CDKN1B antibody WB image

Western Blot: Human Prostate lysate (35 µg protein in RIPA buffer) stained with ARG63914 anti-KIP1 / CDKN1B antibody at 0.1 µg/ml dilution.



ARG63914 anti-p27 Kip1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human spleen tissue.  
Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63914 anti-p27 Kip1 antibody at 5 µg/ml dilution followed by AP-staining.



ARG63914 anti-KIP1 / CDKN1B antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Prostate.  
(Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63914 anti-KIP1 / CDKN1B antibody at 5 µg/ml dilution followed by AP-staining.