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# CDKN1C Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10945A

## Product Information

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| **Application** | WB, IF, E |
| **Primary Accession** | P49918 |
| **Other Accession** | NP_001116102.1, NP_000067.1, NP_001116103.1 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Bovine, Canine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB19047 |
| **Calculated MW** | 32177 |
| **Antigen Region** | 34-64 |

## Additional Information

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| **Gene ID** | 1028 |
| **Other Names** | Cyclin-dependent kinase inhibitor 1C, Cyclin-dependent kinase inhibitor p57, p57Kip2, CDKN1C, KIP2 |
| **Target/Specificity** | This CDKN1C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-64 amino acids from the N-terminal region of human CDKN1C. |
| **Dilution** | WB~~1:500 IF~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | CDKN1C Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | CDKN1C |
| **Synonyms** | KIP2 |

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| **Function** | Potent tight-binding inhibitor of several G1 cyclin/CDK complexes (cyclin E-CDK2, cyclin D2-CDK4, and cyclin A-CDK2) and, to lesser extent, of the mitotic cyclin B-CDC2. Negative regulator of cell proliferation. May play a role in maintenance of the non-proliferative state throughout life. |
| **Cellular Location** | Nucleus. |
| **Tissue Location** | Expressed in the heart, brain, lung, skeletal muscle, kidney, pancreas and testis. Expressed in the eye. High levels are seen in the placenta while low levels are seen in the liver |

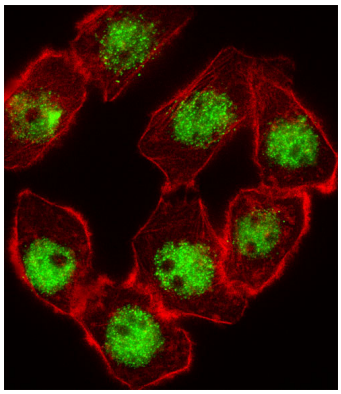
## Background

This gene is imprinted, with preferential expression of the maternal allele. The encoded protein is a tight-binding, strong inhibitor of several G1 cyclin/Cdk complexes and a negative regulator of cell proliferation. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndorome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene.

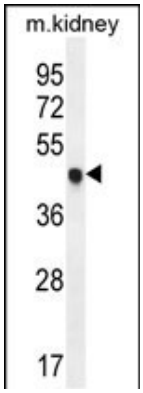
## References

O'Seaghdha, C.M., et al. Hum. Mol. Genet. 19(21):4296-4303(2010)
Madhavan, J., et al. Ophthalmic Genet. 31(3):141-146(2010)
Romanelli, V., et al. Am. J. Med. Genet. A 152A (6), 1390-1397 (2010) :
Hoffner, L., et al. J Reprod Med 55 (5-6), 219-228 (2010) :
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :

## Images



Fluorescent image of A549 cell stained with CDKN1C Antibody (N-term)(Cat#AP10945a).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CDKN1C primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C).CDKN1C immunoreactivity is localized to Nucleus significantly.




CDKN1C Antibody (N-term) (Cat. #AP10945a) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the CDKN1C antibody detected the CDKN1C protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.