

CDKN1C Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10945A

Product Information

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

Additional Information

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

Name	CDKN1C
Synonyms	KIP2
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

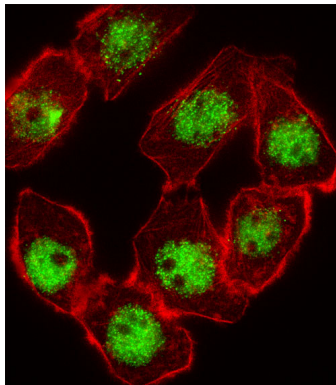
Background

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 syndrome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene.

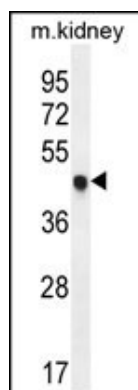
References

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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).