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CDKN1C Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM2072B

Product Information

Application	WB, E
Primary Accession	P49918
Other Accession	NP_000067.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Names	522CT9.5.1
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 mice immunized with a KLH conjugated synthetic peptide between 34-64 amino acids from human CDKN1C.
Dilution	WB~~1:500~1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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 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

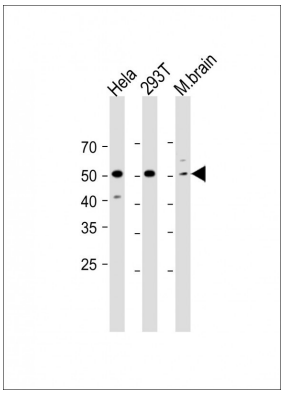
Background

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 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



All lanes: Anti-CDKN1C Antibody (N-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: 293T whole cell lysate Lane 3: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Mouse IgM, (H+L), Peroxidase conjugated (ASP1613) at 1/8000 dilution. Observed band size: 50 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

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