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CDKN2C Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10954b

Product Information

Application	WB, IHC-P, E
Primary Accession	P42773
Other Accession	NP_001253.1, NP_523240.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20696
Calculated MW	18127
Antigen Region	113-139

Additional Information

Gene ID	1031
Other Names	Cyclin-dependent kinase 4 inhibitor C, Cyclin-dependent kinase 6 inhibitor, p18-INK4c, p18-INK6, CDKN2C, CDKN6
Target/Specificity	This CDKN2C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-139 amino acids from the C-terminal region of human CDKN2C.
Dilution	WB~~1:2000 IHC-P~~1:100~500 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	CDKN2C Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDKN2C
Synonyms	CDKN6
Function	Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and

	proliferation with a correlated dependence on endogenous retinoblastoma protein RB.
Tissue Location	Highest levels found in skeletal muscle. Also found in pancreas and heart

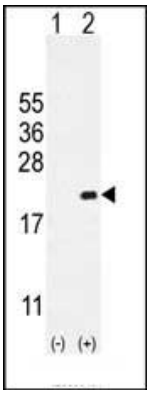
Background

The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to interact with CDK4 or CDK6, and prevent the activation of the CDK kinases, thus function as a cell growth regulator that controls cell cycle G1 progression. Ectopic expression of this gene was shown to suppress the growth of human cells in a manner that appears to correlate with the presence of a wild-type RB1 function. Studies in the knockout mice suggested the roles of this gene in regulating spermatogenesis, as well as in suppressing tumorigenesis. Two alternatively spliced transcript variants of this gene, which encode an identical protein, have been reported.

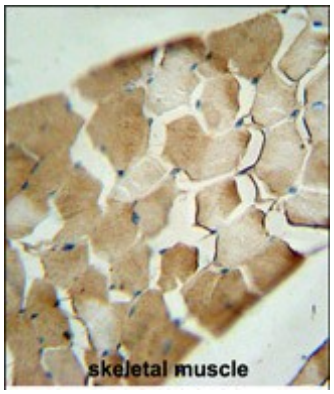
References

Stratakis, C., et al. Clin. Genet. 78(5):457-463(2010)
Cunningham, J.M., et al. Br. J. Cancer 101(8):1461-1468(2009)
Eguchi, T., et al. Mol. Cancer Ther. 8(6):1460-1472(2009)
Pei, X.H., et al. Cancer Cell 15(5):389-401(2009)
Hossain, M.G., et al. Endocr. Pathol. 20(2):114-121(2009)

Images



Western blot analysis of CDKN2C (arrow) using rabbit polyclonal CDKN2C Antibody (C-term) (Cat. #AP10954b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CDKN2C gene.



CDKN2C Antibody (C-term) (Cat. #AP10954b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CDKN2C Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.