

Product Name: KD-Validated CDKN2C Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01802

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 18.1kDa

Antigen Information

Gene Name	CDKN2C
Alternative Names	CDKN2C; Cyclin Dependent Kinase Inhibitor 2C; INK4C; P18; Cyclin-Dependent Kinase Inhibitor 2C (P18, Inhibits CDK4); Cyclin-Dependent Kinase 4 Inhibitor C; P18-INK6; Cyclin-Dependent Kinase 6 Inhibitor P18; Cyclin-Dependent Kinase 6 Inhibitor; Cyclin-Dependent Inhibitor; CDK6 Inhibitor P18; P18-INK4C; P18-INK4c; CDKN6
Gene ID	1031.0
SwissProt ID	P42773
Immunogen	A synthesized peptide derived from human CDKN2C

Background

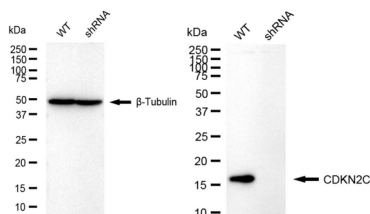
The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been

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. [provided by RefSeq, Jul 2008]

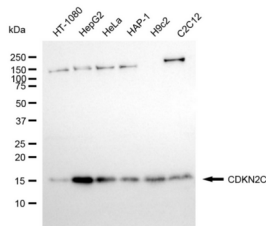
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Cancer

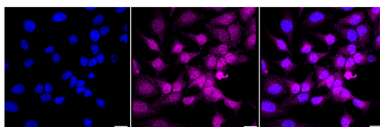
Image Data



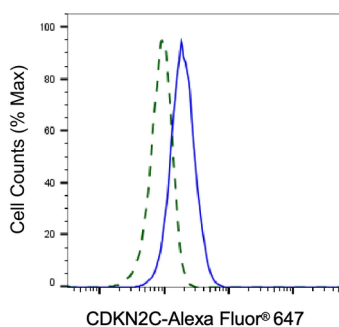
Western blotting analysis using CDKN2C antibody (KVA01802). CDKN2C expression in wild type (WT) and CDKN2C shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with CDKN2C antibody (KVA01802, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



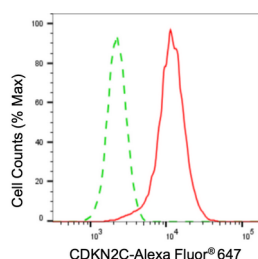
Western blotting analysis using CDKN2C antibody (KVA01802). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CDKN2C antibody (KVA01802, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with CDKN2C antibody (KVA01802, 1:1,000). Nuclei were stained blue with DAPI; CDKN2C was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of CDKN2C knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CDKN2C antibody (KVA01802, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CDKN2C expression in HeLa cells using CDKN2C antibody(KVA01802, 1:2,000). Green, isotype control; red, CDKN2C.

