[KD Validated] Anti-CDKN2C Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021876

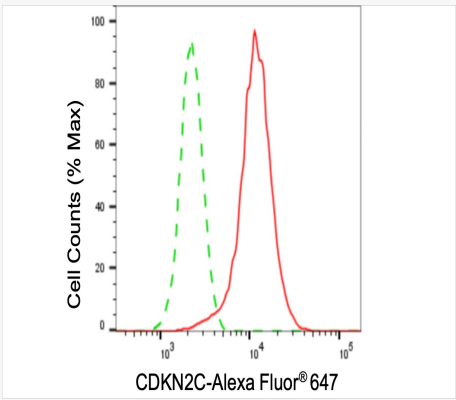
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	74B91A30
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human CDKN2C
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-CDKN2C Rabbit mAb [74B91A30] is for research use only and not for use in diagnostic or therapeutic procedures.

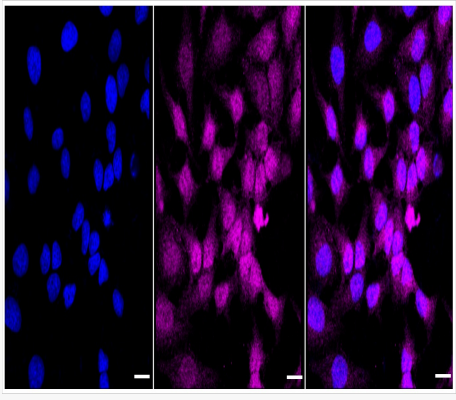
Protein Information

Synonyms	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.
Calculated MW	Calculated MW: 18 kDa, Observed MW: 15 kDa
Uniprot ID	P42773
Gene ID	1031
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]
Tissue Location	Highest levels found in skeletal muscle. Also found in pancreas and heart.

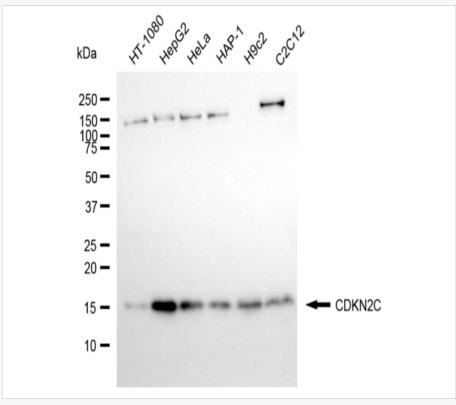
Validation Images



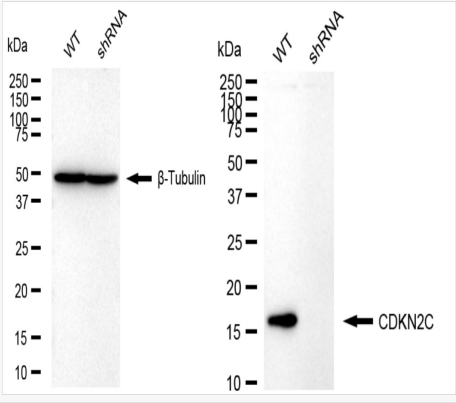
Flow cytometric analysis of CDKN2C expression in HeLa cells using CDKN2C antibody(R021876, 1:2,000). Green, isotype control; red, CDKN2C.



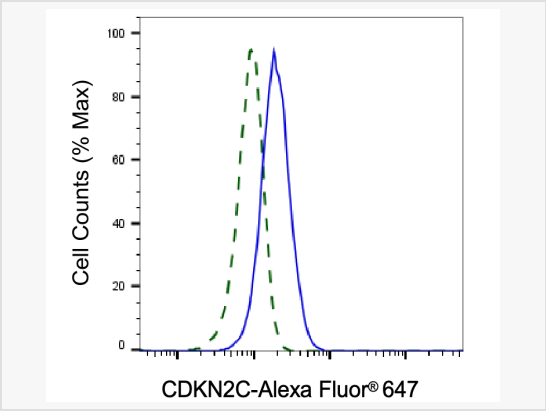
Immunocytochemical staining of Hela cells with CDKN2C antibody (R021876, 1:1,000). Nuclei were stained blue with DAPI; CDKN2C was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Western blotting analysis using CDKN2C antibody (R021876). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CDKN2C antibody (R021876, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using CDKN2C antibody (R021876). 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 (R021876, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Validation of CDKN2C knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CDKN2C antibody (R021876, 1:2,000) and analyzed using BD flow cytometer.