



CDKN2A/p14ARF Rabbit mAb

Catalog No	YP-rAb-18068
Isotype	IgG
Reactivity	Human
Applications	WB,IF,IP,ELISA
Gene Name	CDKN2A
Protein Name	Cyclin-dependent kinase inhibitor 2A isoform 4
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:1000-5000; IF 1:200-1000; ELISA 1:5000-20000; IP 1:50-200
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	CDKN2A ; CDKN2 ; MLM ; Cyclin-dependent kinase inhibitor 2A ; isoform 4 ; p14ARF ; p19ARF
Observed Band	16kD
Calculated Molecular Weight	14kD
Cell Pathway	Nuclear
Tissue Specificity	
Function	

Background

CDKN2A generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, the E3 ubiquitin-protein ligase MDM2, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK





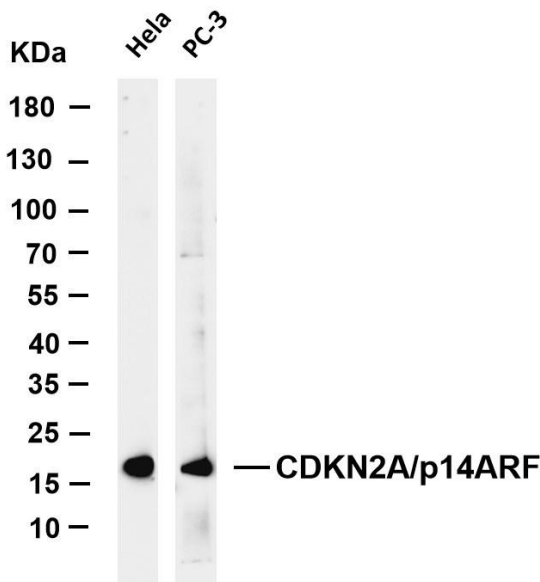
inhibitor isoforms and the ARF product encoded by CDKN2A, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. CDKN2A is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene.

matters needing attention

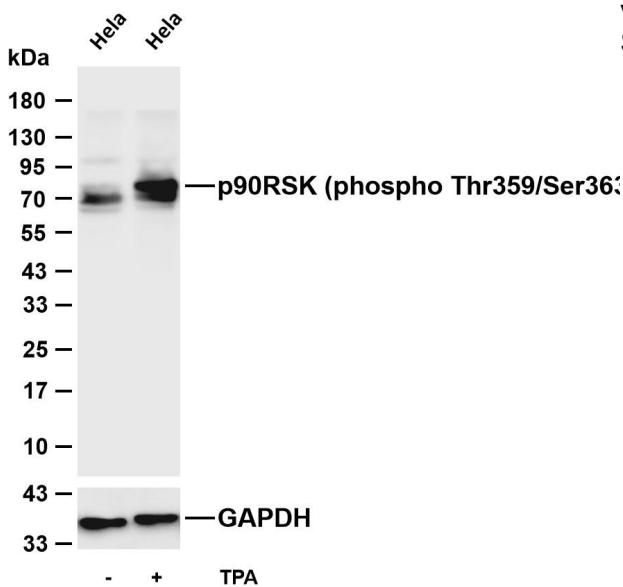
Avoid repeated freezing and thawing!

Usage suggestions

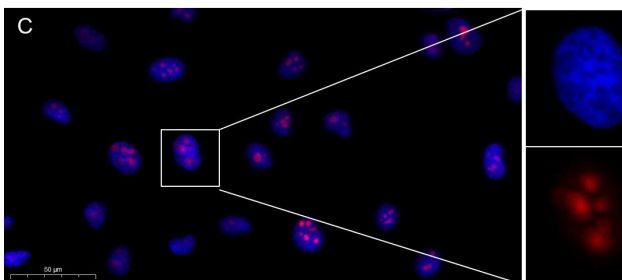
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CDKN2A/p14ARF antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: PC-3 Predicted band size: 14kDa Observed band size: 16kDa



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-p90



Immunofluorescence analysis of HeLa. Picture A: CDKN2A/p14ARF Rabbit mAb (red). Picture B: DAPI (blue). Picture C: Merge of A+B

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