Best Tools for immunology Research

CDKN2A/p14ARF (PT0154R) PT® Rabbit mAb

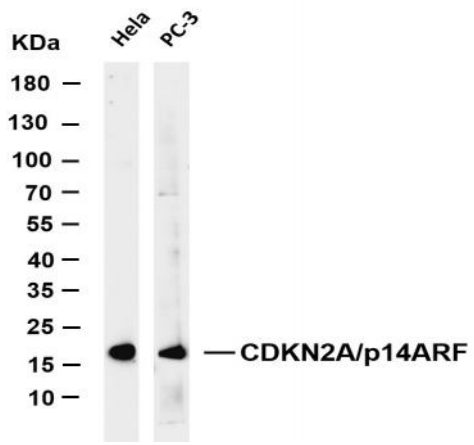
Catalog No :	YM8091
Reactivity :	Human;
Applications :	WB;IF;IP;ELISA
Target :	p14ARF
Gene Name :	CDKN2A
Protein Name :	Cyclin-dependent kinase inhibitor 2A isoform 4
Human Gene Id :	1029
Human Swiss Prot No :	Q8N726
Mouse Swiss Prot No :	Q64364
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	WB 1:1000-5000,IF 1:200-1000,ELISA 1:5000-20000,IP 1:50-200
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	14kD
Observed Band :	16kD
Cell Pathway :	Stem cell pathway; Cell Cycle
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.

Subcellular Location :

Nuclear

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CDKN2A/p14ARF (PT0154R) 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