ELK Biotechnology

p14 rabbit pAb

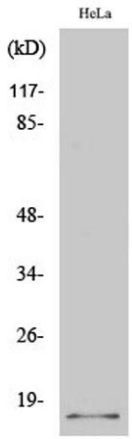
Cat No.:ES3095

For research use only

Overview

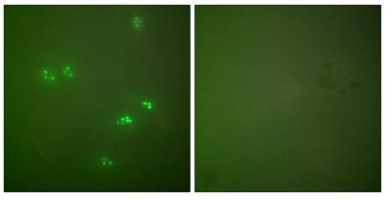
Product Name	p14 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human p14 ARF. AA range:71-120
Specificity	p14 Polyclonal Antibody detects endogenous levels of p14 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Cyclin-dependent kinase inhibitor 2A isoform 4
Gene Name	CDKN2A
Cellular localization	Nucleus, nucleolus . Nucleus, nucleoplasm .; [Isoform smARF]: Mitochondrion .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	18kD
Human Gene ID	1029
Human Swiss-Prot Number	Q8N726
Alternative Names	CDKN2A; CDKN2; MLM; Cyclin-dependent kinase inhibitor 2A; isoform 4; p14ARF; p19ARF
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.



Western Blot analysis of various cells using p14 Polyclonal Antibody diluted at 1:500

Immunofluorescence analysis of HeLa cells, using p14 ARF Antibody. The picture on the right is blocked with the synthesized peptide.



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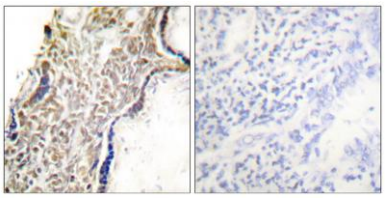
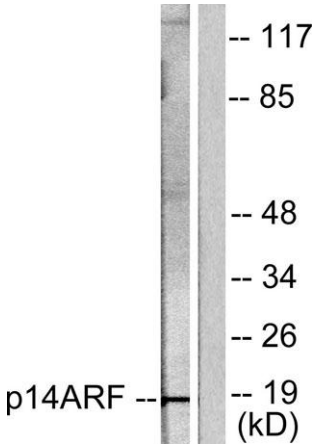


Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using p14 ARF Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using p14 ARF Antibody. The lane on the right is blocked with the synthesized peptide.

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