

CDKN2A Antibody

Lot Number: RF2214742

Product Data Sheet

Tested Species Reactivity

Human (Hu)

Tested Applications

Immunohistochemistry (Paraffin)
(IHC (P))

Dilution *

1:25

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details

Catalog Number:	PA1-38334
Size:	1 mL
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide derived from C-terminus of human p14

Form Information

Form:	Liquid
Concentration:	Lot-Specific
Purification:	Antigen affinity chromatography
Storage Buffer:	PBS, pH 7.6, with 1% BSA
Preservative:	<0.1% sodium azide
Storage Conditions:	4° C, do not freeze

Product Specific Information

Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is lymphoma.

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General Information

The INK4a-ARF locus encodes two unrelated proteins both of which function in tumor suppression. p14ARF arrests the cell cycle in a p53-dependent manner. p14ARF binds to mdm2 and promotes the rapid degradation of mdm2 protein required for mdm2 modification and concurrent p53 stabilization and accumulation. This interaction is mediated by the exon 1 beta-encoded N-terminal domain of p14ARF and a C-terminal region of mdm2. Deletion of the ARF-INK4a locus simultaneously impairs both the INK4a-cyclin D/cdk4-RB and the ARF-mdm2-p53 pathways.

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