

p14ARF Polyclonal Antibody

Catalog Number PA1-38334

Product data sheet

Details		Species Reactivity	
Size	1 mL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Frozen) (IHC (F))	Dilution * Assay-dependent
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:25
Immunogen	Synthetic peptide derived from C-terminus of human p14	Western Blot (WB)	1-2 µg/mL
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	1 µg/mL
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7.6, with 1% BSA		
Contains	0.1% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

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.

Background/Target Information

The INK4a locus on chromosome 9p21 is frequently affected in human tumors. It encodes two structurally distinct tumor suppressor proteins, p16INK4a and the alternative reading frame protein, ARF (p14ARF in human and P19ARF in mouse). These two proteins interact with the upstream proteins: retinoblastoma protein and p53 tumor suppressors, respectively. Each of these proteins has a role in the senescence of primary cells, activates pathways for cell cycle control and tumor suppression. The p14ARF (or P19ARF in mouse) proteins can induce both G1 and G2 phase arrest in a manner that depends on functional p53. The mouse and human ARF proteins have different functions in tumor suppression; this distinction may contribute to the different levels of tumor proneness of these species.

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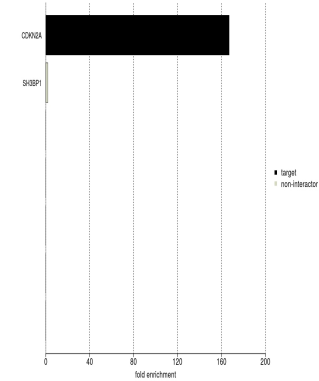
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Product Images For p14ARF Polyclonal Antibody

p14ARF Antibody (PA1-38334)

IP-MS enrichment of CDKN2A (LFQ intensity): CDKN2A was enriched 167-fold from BT549 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and CDKN2A antibody (Product # PA5-32529). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}



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