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Polyclonal Antibody to p14 ARF - Purified

Alternate names: DP3095, p14ARF

Catalog No.: AP00553PU-N

Quantity: 0.5 mg

Concentration: 1 mg/ml

Background: 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 proteinrequired for mdm2 modification and concurrent p53 stabilization and accumulation. This interaction is mediated by the exon 1β-encoded Nterminaldomain 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.

Host: Rabbit

Immunogen: A synthetic peptide from the C-terminus of human p14ARF.
Remarks: Mol. Wt. of Antigen: 14 kDa

Format: **State:** Liquid IgG
Purification: Protein A chromatography
Buffer System: 10 mM PBS, pH 7.4, with 0.2 % BSA & 0.09 % sodium azide.

Applications: Immunofluorescence.
Immunohistology (formalin/paraffin): use Ab at 5-10 µg/ml for 30 min at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Recommended positive control: HeLa Cells, Cervical Carcinoma, or Breast Fibroadenoma.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects p14ARF.
It may show some additional bands with MW much higher than 14 kDa. However, the p14ARF area is relatively clean which permits an easy identification of the p14ARF band.
Cellular Localization: Nuclear.
Species: Human.
Other species not tested.

Storage: Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

Formalin-fixed, paraffin-embedded human cervical cancer stained with p14,(AP00553PU-N) using peroxidase-conjugate and AEC chromogen. Note nuclear staining of tumor cells.