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Polyclonal Antibody to p14ARF

Catalog No.: SP6354P

Quantity: 50 µg

Concentration: 0.5 mg/ml

Host: Rabbit

Immunogen: A synthetic peptide corresponding to a synthetic peptide human p14ARF protein close to C-terminus.

Format: This antibody is supplied as liquid epitope affinity purified immunglobulin fraction in Phosphate buffered saline pH 7.4 with 0.02% sodium azide as preservative.

Applications: ELISA 0.1 - 1.0 µg/ml, Western blot (0.5 - 2 µg/ml) and Immunoprecipitation (3.0 - 5.0 µg/extract from 107 cells). Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
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Specificity: 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 (1-2). Each of these proteins has a role in the senescence of primary cells, activates pathways for cell cycle control and tumor suppression (3, 4). The p14ARF (or P19ARF in mouse) proteins can induce both G1 and G2 phase arrest in a manner that depends on functional p53 (5). 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 (6).
This antibody is specific for human p14ARF. By western blot, the antibody can be used for the detection of the human P14ARF with the whole cell lysate of Lovo. This band can be depleted by immunizing peptide.

Storage: Store the antibody undiluted at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.

General Readings:

1. Quelle DE et al (1995) Cell 83, 993-1000.
2. Kamijo et al (1997) Cell 91, 649-659.
3. Munro J et al (1999), Can