

CDKN1A RABBIT PAB

Cat.#: S216414

Product Name: Anti-CDKN1A Rabbit Polyclonal Antibody

Synonyms: P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1

UNIPROT ID: P38936 (Gene Accession - BC000275)

Background: This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene.

Immunogen: Fusion protein of human CDKN1A

Applications: ELISA, WB, IHC

Recommended Dilutions: IHC: 40-200;WB: 200-1000;ELISA: 5000-10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG

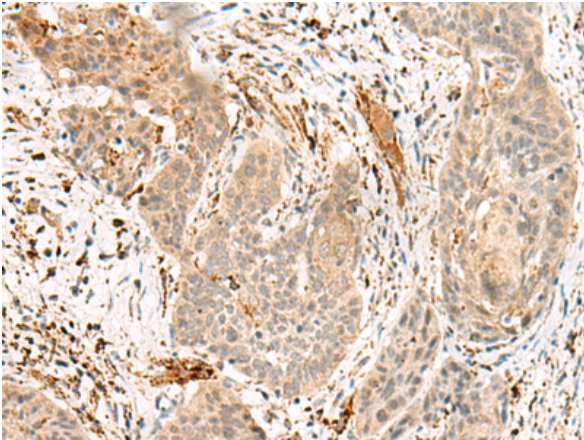
Purification: Antigen affinity purification

Species Reactivity: Human

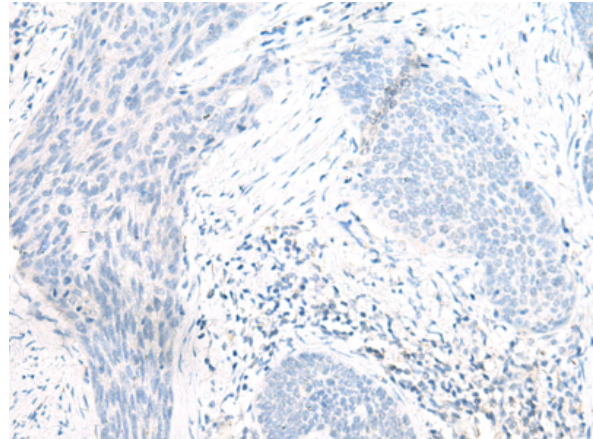
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

Research Areas: Epigenetics and Nuclear Signaling, Cancer

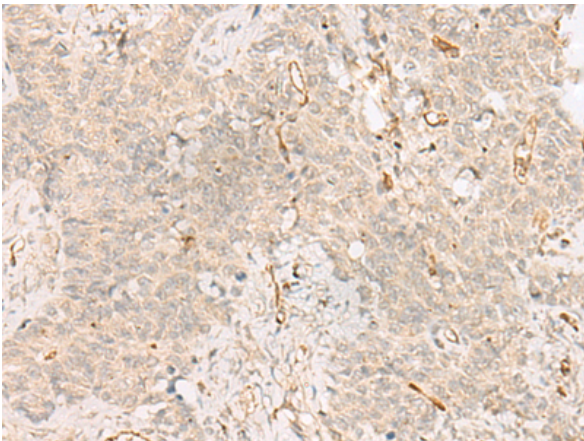
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



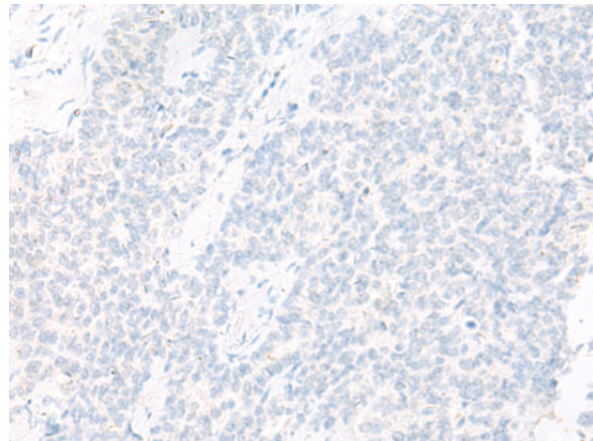
Immunohistochemistry analysis of paraffin embedded Human esophagus cancer tissue using 216414 (CDKN1A Antibody) at a dilution of 1/45 (Cytoplasm and Nucleus).



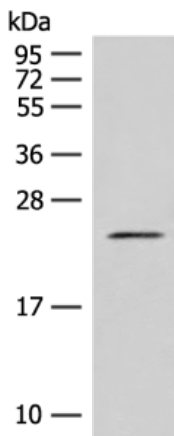
In comparison with the IHC on the left, the same paraffin-embedded Human esophagus cancer tissue is first treated with the fusion protein and then with 216414 (Anti-CDKN1A Antibody) at dilution 1/45.



The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using 216414 (Anti-CDKN1A Antibody) at a dilution of 1/45.



In comparison with the IHC on the left, the same paraffin-embedded Human ovarian cancer tissue is first treated with fusion protein and then with D220403 (Anti-CDKN1A Antibody) at dilution 1/45.



Gel: 12% SDS-PAGE, Lysate: 40 μ g;
Lane: HUVEC cell lysate;
Primary antibody: 216414 (CDKN1A Antibody) at dilution 1/200;
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution;
Exposure time: 3 seconds



Product Description

Pioneering GTPase and Oncogene Product Development since 2010
