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

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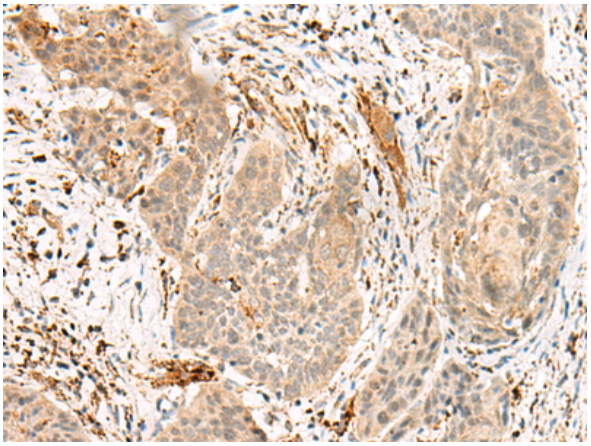
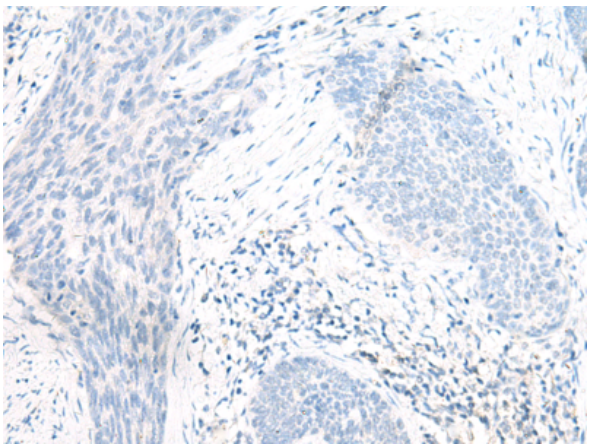
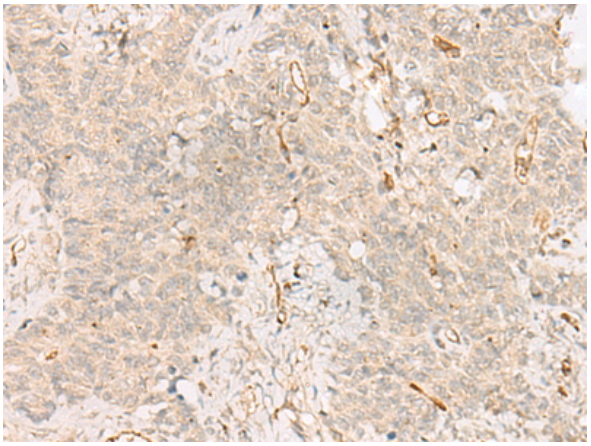


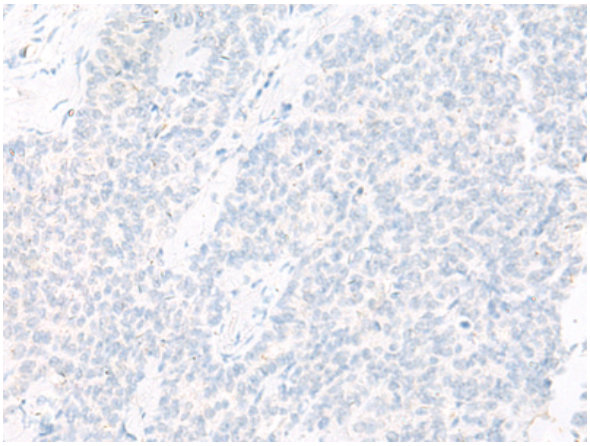
Immunohistochemistry analysis of paraffin embedded Human esophagus cancer tissue using 216414(CDKN1A Antibody) at a dilution of 1/45(Cytoplasm and Nucleus).



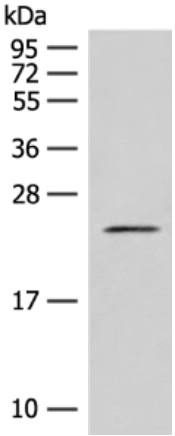
In comparision with the IHC on the left, the same paraffin-embedded Human esophagus cancer tissue is first treated with the fusion protein and then with 216414(Anti-CDKN1A Antibody) at dilution 1/45.



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 comparision 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 µg;
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

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