Anti-p16INK4a Antibody [SU0702] - BSA and Azide free

HA750158

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IP
Molecular Wt:	Predicted band size: 16 kDa
Clone number:	SU0702

Description: p16 (also known as p16INK4a, cyclin-dependent kinase inhibitor 2A, CDKN2A, multiple tumor suppressor 1 and numerous other synonyms), is a protein that slows cell division by slowing the progression of the cell cycle from the G1 phase to the S phase, thereby acting as a tumor suppressor. It is encoded by the CDKN2A gene. A deletion (the omission of a part of the DNA sequence during replication) in this gene can result in insufficient or non-functional p16, accelerating the cell cycle and resulting in many types of cancer. p16 can be used as a biomarker to improve the histological diagnostic accuracy of grade 3 cervical intraepithelial neoplasia (CIN). p16 is also implicated in the prevention of melanoma, oropharyngeal squamous cell carcinoma, cervical cancer, vulvar cancer and esophageal cancer.

Immunogen: Synthetic peptide within Human p16INK4a aa 107-156 / 156.

Positive control: 293 cell lysate, SiHa cell lysate, HepG2, Hela, PC-3M, human colon carcinoma tissue, human cervical carcinoma tissue, human ovary carcinoma tissue.

Subcellular location: Cytoplasm, Nucleus.

Database links: SwissProt: P42771 Human

Recommended Dilutions:

WB	1:1,000
IP	Use at an assay dependent concentration.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

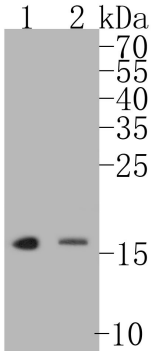

Fig1: Western blot analysis of p16INK4a on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (HA750158, 1/1,000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.
Positive control:
Lane 1: 293 cell lysate
Lane 2: SiHa cell lysate

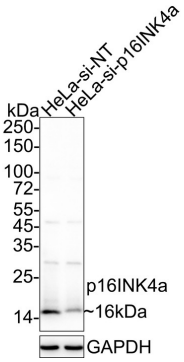

Fig2: Western blot analysis of p16INK4a on different lysates with Rabbit anti-p16INK4a antibody (HA750158) at 1/1,000 dilution.

Lane 1: HeLa-si NT cell lysate
Lane 2: HeLa-si p16INK4a cell lysate

Lysates/proteins at 15 µg/Lane.

Predicted band size: 16 kDa
Observed band size: 16 kDa

Exposure time: 20 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750158) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.

Background References

1. Idriss MH et al. Orthokeratotic Bowen disease: a histopathologic, immunohistochemical and molecular study. J Cutan Pathol 43:24-31 (2016).
2. Liang L et al. Assessment of the Utility of PAX8 Immunohistochemical Stain in Diagnosing Endocervical Glandular Lesions. Arch Pathol Lab Med 140:148-52 (2016).