

p16INK4A Rabbit mAb

Catalog No: #48843



Package Size: #48843-1 50ul #48843-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

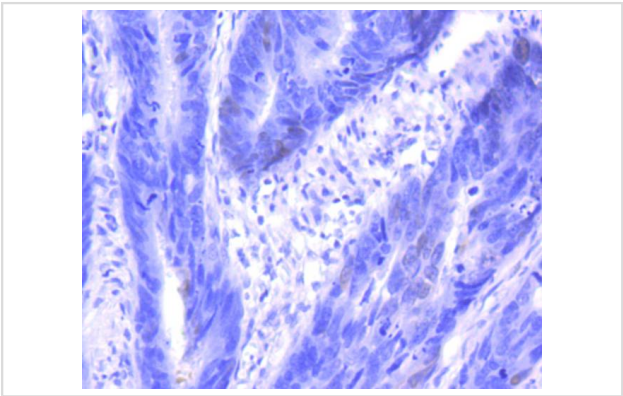
Description

Product Name	p16INK4A Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SU0702
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CCM2 antibody CDK4 inhibitor p16 INK4 antibody CDK4I antibody CDKN2 antibody CDKN2A antibody Cell cycle negative regulator beta antibody CMM2 antibody Cyclin dependent kinase 4 inhibitor A antibody Cyclin dependent kinase inhibitor 2A (melanoma p16 inhibits CDK4) antibody Cyclin Dependent Kinase Inhibitor 2A antibody Cyclin dependent kinase inhibitor 2A isoform 4 antibody Cyclin dependent kinase inhibitor 2A isoforms 1/2/3 antibody Cyclin dependent kinase inhibitor p16 antibody INK4 antibody INK4A antibody MLM antibody MTS1 antibody Multiple tumor suppressor 1 antibody p14 antibody p16 antibody P16INK4 antibody p16INK4a antibody p19 antibody p19Arf antibody TP16 antibody
Accession No.	Swiss-Prot#:P42771
Calculated MW	17 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

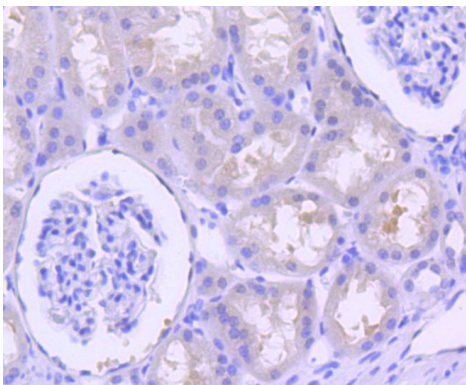
Application Details

WB: 1:500-1:1000IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

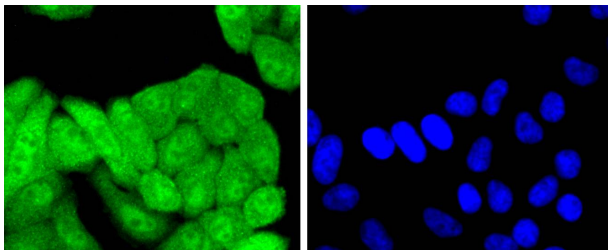
Images



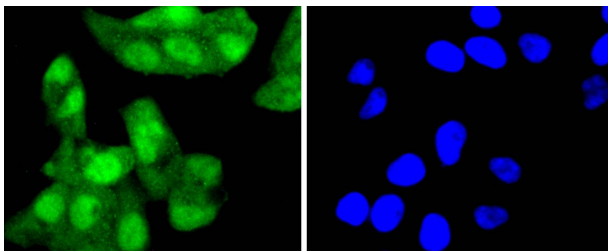
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-p16INK4A antibody. Counter stained with hematoxylin.



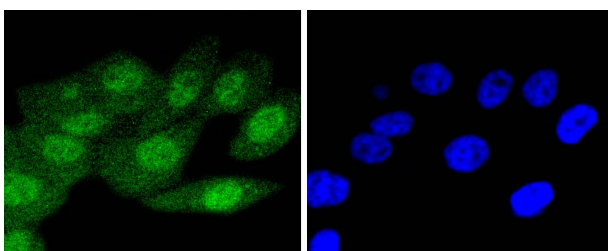
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-p16INK4A antibody. Counter stained with hematoxylin.



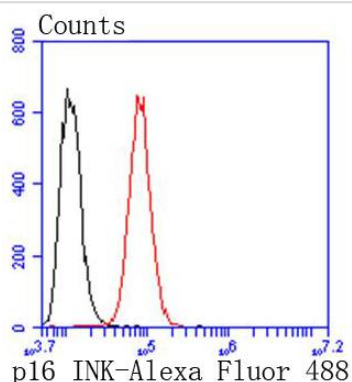
ICC staining p16INK4A in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining p16INK4A in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining p16INK4A in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with p16INK4A antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

The progression of cells through the cell cycle is regulated by a family of proteins designated cyclin-dependent kinases (Cdks). Sequential activation of individual members of this family and their consequent phosphorylation of critical substrates, promote orderly progression through the cell cycle. The protein p16INK4A, identified as a negative regulator of the cell cycle, has been shown to bind to and inhibit the activity of the Cdk4/cyclin D complex. p19 ARF, which is unrelated to p16, arises from transcription of an alternative reading frame of the p16 gene. Like p16, p19 ARF has been shown to induce cell cycle arrest. Mice lacking p19 ARF but expressing functional p16 have been shown to develop tumors early in life. Further studies have indicated that p19 ARF may be disrupted in a large percentage of human T cell acute lymphoblastic leukemias.

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).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.