Product Name: P16 (Mouse and Human) Mouse Monoclonal Antibody
Catalog #: AMM80587
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ELISA
Reactivity	Human,Mouse,Rat,Rabbit
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	IHC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	16.5kDa

Antigen Information

Gene Name	P16
Alternative Names	P16
Gene ID	1029.0
SwissProt ID	P42771
Immunogen	Purified recombinant fragment of P16 expressed in E. Coli.

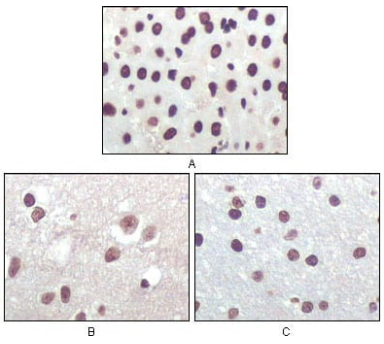
Background

The progression of cells through the cell cycle is regulated by a family of protein kinases known as cyclin-dependent kinases (Cdks). The sequential activation of individual members of this family and their consequent phosphorylation of critical substrates promotes orderly progression through the cell cycle. The cyclins function as differentially expressed positive

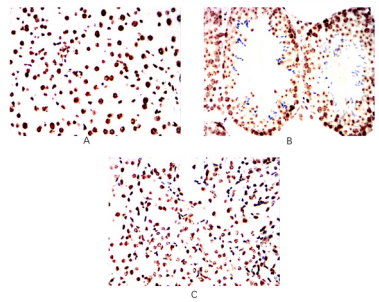
regulators of Cdks. Negative regulators of the cycle include the p53-inducible 21 kDa WAF1/Cip1 protein designated p21, Kip1 p27 and p16. The complexes formed by Cdk4 and the D-type cyclins have been strongly implicated in the control of cell proliferation during the G1 phase. It has recently been shown that p16 binds to Cdk4 and inhibits the catalytic activity of the Cdk4/cyclin D complex. Moreover, the gene encoding p16 exhibits a high frequency of homozygous deletions and point mutations in established human tumor cell lines.

Research Area

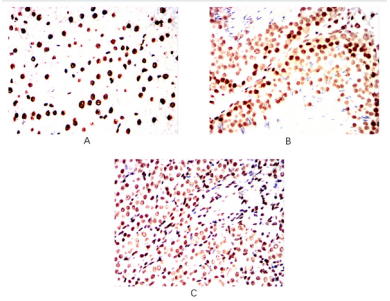
Image Data



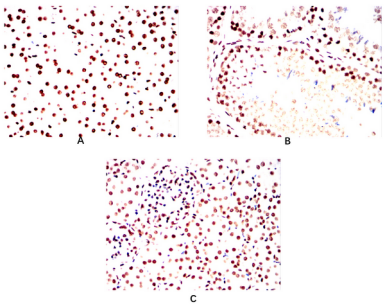
Immunohistochemical analysis of paraffin-embedded rat liver tissue (A), human brain tissue (B) and brain tumor (C), showing nuclear localization using P16 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse liver(A)Mouse testis(B)Mouse kidney(C) using P16 (Mouse and Human) mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat liver(A)Rat testis(B)Rat kidney(C) using P16 (Mouse and Human) mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit liver(A)Rabbit testis(B) using P16 (Mouse and Human) mouse mAb with DAB staining.