p21 Polyclonal Antibody

Catalog Number:E-AB-70068

Note: Centrifuge before opening to ensure complete recovery of vial contents.

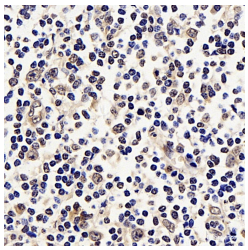
Description

Reactivity	Human,Mouse,Rat
Immunogen	KLH conjugated Synthetic peptide corresponding to Mouse P21
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Formulation	PBS with 0.02% sodium azide, 1% protective protein and 50% glycerol, pH7.4

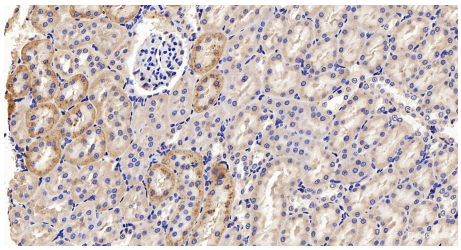
Applications — Recommended Dilution

IHC	1:200-1:800

Data



Immunohistochemistry analysis of paraffin-embedded Human tonsil using p21 Polyclonal Antibody at dilution of 1:300.



Immunohistochemistry analysis of paraffin-embedded Rat kidney using p21 Polyclonal Antibody at dilution of 1:300.

Preparation & Storage

Storage	Store at -20℃. Avoid freeze / thaw cycles.

Background

CDKN1A (p21,CIP1,WAF1),a cyclin-dependent kinase inhibitor,is necessary for proper control of the cell cycle and premature senescence. P21 is a cyclin-dependent kinase (CDK) inhibitor that suppresses proliferation by inhibiting CDK2 and CDK1 activity at the G1/S and G2/M transitions. P21 is a major mediator of p53 to induce cell cycle arrest in G1. p21 can interact with proliferating cell nuclear antigen (PCNA),and plays a regulatory role in S phase DNA replication and DNA damage repair. P21 was reported to be specifically cleaved by CASP3-like caspases,which thus leads to a dramatic activation of CDK2,and may be instrumental in the execution of apoptosis following caspase activation. Overexpression of p21 decreases the expression levels of cell cycle progression genes and upregulates senescence-inducing genes.

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