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Anti-p21 Rabbit mAb [31A25]

Catalog No.: A52254

Basic Information

Catalog No. (Cat.No.)	A52254
Host species	Rabbit
Reactivity	Human,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	p21,WAF1,CIP1,SDI1

Product Information

Target	p21
Molecular Weight(Calculated)	18 kDa
Molecular Weight(Observed)	18 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	31A25
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:100-1:200
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Cyclin-dependent kinase inhibitor-1A
Gene Name	*CDKN1A*
Domain	NA
Background	p21 (CDKN1A, cyclin-dependent kinase inhibitor 1A) is a broad-spectrum CDK-inhibitor family protein mediating cell-cycle repression, DNA-damage response and senescence control. p21 inhibits multiple Cyclin-CDK assemblies, prevents Rb phosphorylation and arrests cells at G1 and G2 phases to repress DNA replication. As major transcriptional target downstream of p53, p21 is strongly induced upon genotoxic stress to enforce cell-cycle checkpoint. p21 also interacts with PCNA to directly suppress DNA polymerase activity. Beyond tumor-suppression, p21 modulates cell differentiation and stem-cell homeostasis, and exhibits context-dependent dual roles in cancers.