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Anti-p16 INK4A Rabbit mAb [46F87]

Catalog No.: A52252

Basic Information

Catalog No. (Cat.No.)	A52252
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IP,IF,ELISA
Synonyms	p16 INK4A,p16-INK4A,p16INK4a,MTSS1,INK4a,p16

Product Information

Target	p16 INK4A
Molecular Weight(Calculated)	17 kDa
Molecular Weight(Observed)	17 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	46F87
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
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Cyclin-dependent kinase inhibitor-2A (INK4A isoform)
Gene Name	*CDKN2A*
Domain	NA
Background	p16INK4A (CDKN2A, cyclin-dependent kinase inhibitor 2A) belongs to cyclin-dependent kinase inhibitor family, inhibiting CDK4/6 to trigger G1-phase cell-cycle arrest and mediate cellular senescence. p16INK4A directly binds CDK4 and CDK6, disrupts CDK-Cyclin-D assembly, prevents Rb hyper-phosphorylation and preserves Rb tumor-suppressive function to block G1-to-S transition. It serves as canonical senescence biomarker with strong induction in senescent cells. Deletion or silencing of CDKN2A releases proliferative restraint and promotes oncogenesis. In HPV-driven tumors, viral E7 antagonizes Rb and induces compensatory p16INK4A overexpression, making p16INK4A a diagnostic marker for cervical lesions.