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Anti-Cdc25C Rabbit mAb [81B31]

Catalog No.: A52070

Basic Information

Catalog No. (Cat.No.)	A52070
Host species	Rabbit
Reactivity	Human,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Cdc25C,MPM2,CDC25A2,mitosis-specific protein phosphatase

Product Information

Target	Cdc25C
Molecular Weight(Calculated)	53 kDa
Molecular Weight(Observed)	60 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	81B31
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	1:2000-1:10000
IHC	1:1000-1:4000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Cell division cycle 25C
Gene Name	*CDC25C*
Domain	NA
Background	Cdc25C (Cell-division-cycle 25C) belongs to dual-specificity phosphatase family and governs G2/M cell-cycle transition. Predominantly cytoplasmic Cdc25C removes inhibitory phosphate moieties from Cdc2/Cdk1 to activate Cdc2-cyclin B complex and trigger G2-to-M progression. Cdc25C activity is tightly controlled by phosphorylation. Phosphorylation at inhibitory sites sequesters Cdc25C in cytoplasm and arrests cell cycle; dephosphorylation enables nuclear translocation for mitosis promotion. Under DNA-damage stress, Chk1/Chk2 phosphorylates Cdc25C to trigger its degradation and activate G2/M checkpoint. Aberrant Cdc25C overexpression is frequently observed in multiple malignancies. It is an essential target for tumor-proliferation and cell-cycle-checkpoint investigation.