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Anti-Cyclin B1 (phospho Ser126) Rabbit mAb [43A82]

Catalog No.: A52091

Basic Information

Catalog No. (Cat.No.)	A52091
Host species	Rabbit
Reactivity	Human
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Cyclin B1 (phospho Ser126),p-Cyclin-B1(Ser126),Cyclin B1,CCNB1,p34-cdc2-related

Product Information

Target	Cyclin B1 (phospho Ser126)
Molecular Weight(Calculated)	48 kDa
Molecular Weight(Observed)	55 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	43A82
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	1:500-1:2000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Cyclin B1 (phospho Ser126)
Gene Name	*CCNB1*
Domain	NA
Background	Cyclin B1 (Phospho-Ser126) is cyclin B1, the regulatory subunit of MPF complex, governing G2/M transition and mitotic progression. Cyclin B1 associates with Cdc2/Cdk1 to assemble MPF and drive M-phase entry. Ser126 phosphorylation is a critical modification controlling Cyclin B1 nuclear translocation, protein stability and MPF activity. Appropriate Ser126 phosphorylation promotes Cyclin B1 nuclear import and mitosis onset; subsequent dephosphorylation together with ubiquitination triggers Cyclin B1 degradation for mitotic exit. DNA-damage stress perturbs Ser126 phosphorylation and induces G2/M cell-cycle arrest. Phospho-Ser126 level reports mitotic-pathway activation and is applied in cell-cycle, DNA-damage-response and tumour-proliferation researches.