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Anti-Cdc2 Rabbit pAb (A72075)

Catalog No.: A72075

Basic Information

Catalog No. (Cat.No.)	A72075
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	Cdc2,Cell division cycle protein 2 homolog (S. cerevisiae),p34cdc2,MPM2 antigen

Product Information

Target	Cdc2
Molecular Weight(Calculated)	34 kDa
Molecular Weight(Observed)	34 kDa
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Polyclonal
Clone No.	NA
RRID	NA
Storage buffer	50% Glycerol, 0.5% BSA and 0.02% 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	1:500-1:2000
IF	1:50-1:200
ELISA	1:10000

Target Information

Protein Name	Cyclin-dependent kinase 1
Gene Name	*CDK1*
Domain	NA
Background	Cdc2 (Cell-division-cycle 2, CDK1) belongs to cyclin-dependent kinase family and serves as master regulator for G2/M transition and mitosis onset. Cdc2 associates with Cyclin B to form maturation-promoting factor (MPF). Its kinase activity is tightly governed by layered phosphorylation. Wee1 introduces inhibitory phosphorylation to keep Cdc2 silent; Cdc25C removes these inhibitory phosphates to activate MPF, triggering nuclear envelope breakdown, spindle assembly and other mitotic events. Cyclin B degradation after mitosis terminates Cdc2 activity. Dysregulated Cdc2 activation causes cell-cycle aberration and genomic instability, and its up-regulation is detected in various cancers.