

Product Datasheet

Cyclin B1 Antibody (V92.1) - Azide and BSA Free NBP2-34509-0.1 mg

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-34509-0.1 mg

Cyclin B1 Antibody (V92.1) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	V92.1
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	10 mM PBS
Target Molecular Weight	58 kDa
Product Description	
Host	Mouse
Gene ID	891
Gene Symbol	CCNB1
Species	Human, Mouse, Hamster
Specificity/Sensitivity	It recognizes a protein of 55-62kDa, identified as cyclin B1. In mammals, cyclin B associates with inactive p34cdc2, which facilitates phosphorylation of p34cdc2 at aa 14Thr and 15Tyr. This maintains the inactive state until the end of G2-phase. The inactive cyclin B-p34cdc2 complex continues to accumulate in the cytoplasm until the completion of DNA synthesis, when Cdc25, a specific protein phosphatase, dephosphorylates aa 14Thr and 15Tyr of p34cdc2 rendering the complex active at the G2/M boundary. This mitotic kinase complex remains active until the metaphase/anaphase transition when cyclin B is degraded. This degradation process is ubiquitin-dependent and is necessary for the cell to exit mitosis. So, cyclin B-p34cdc2 plays a critical role in G2 to M transition.
Immunogen	Hamster Cyclin B1 protein
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 0.5-1ug/million cells, ELISA 1-5ug/ml for coating, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2ug/ml, Immunoprecipitation 1-2ug/500ug protein, Immunohistochemistry-Frozen 1-2ug/ml, CyTOF-ready
Application Notes	This antibody is Cytof ready.



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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