

Product Datasheet

Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free NBP2-47893-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP2-47893-0.1mg

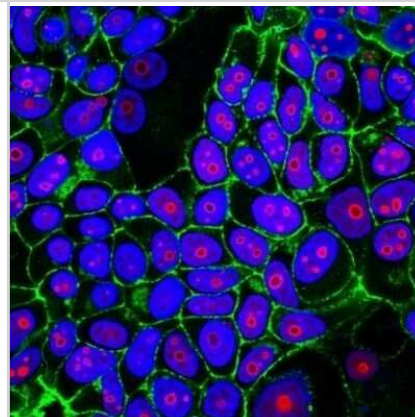
Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CCNB1/1098
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Product Description	
Description	<p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44687).</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	891
Gene Symbol	CCNB1
Species	Human, Mouse
Specificity/Sensitivity	<p>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.</p>
Immunogen	Recombinant human full-length Cyclin B1 protein (Uniprot: P14635)
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

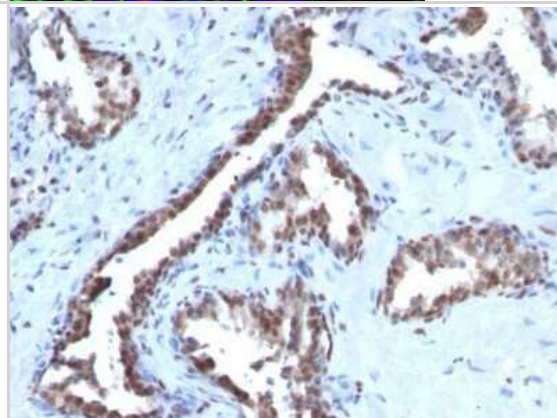


Images

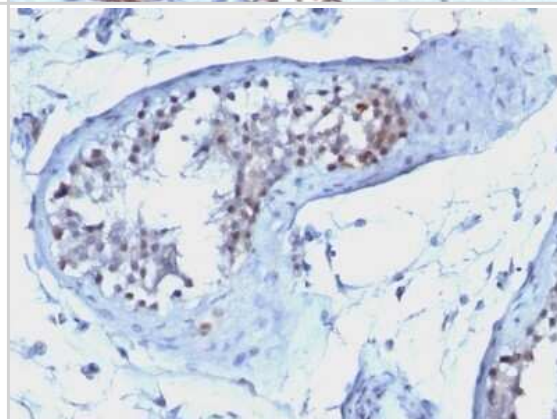
Immunocytochemistry/Immunofluorescence: Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free [NBP2-47893] - MCF-7 cells stained with CF555 Cyclin B1 Antibody (CCNB1/1098) (nuclei/nucleoli, red) and CF488A phalloidin (actin filaments, green). DNA is stained with Hoechst (blue).



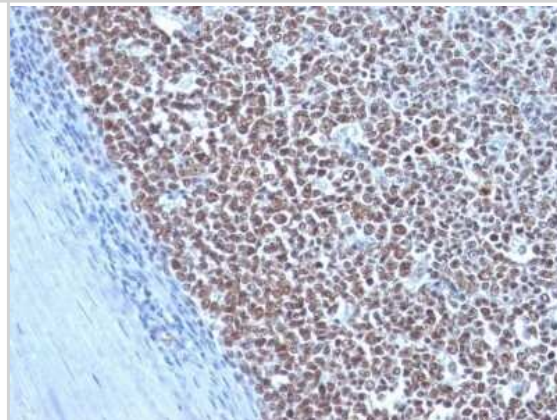
Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free [NBP2-47893] - Human Prostate Carcinoma stained with Cyclin B1 Monoclonal Antibody (CCNB1/1098)



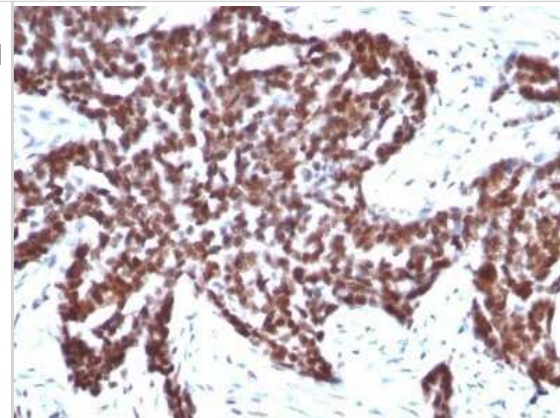
Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free [NBP2-47893] - Human Testicular Carcinoma stained with Cyclin B1 Monoclonal Antibody (CCNB1/1098)



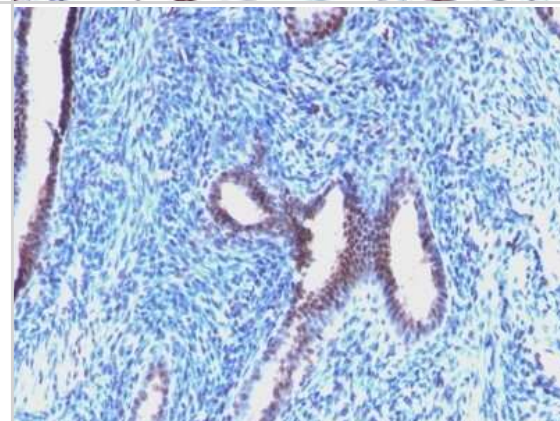
Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free [NBP2-47893] - Human Tonsil stained with Cyclin B1 Monoclonal Antibody (CCNB1/1098)



Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free [NBP2-47893] - Human Ovarian Carcinoma stained with Cyclin B1 Monoclonal Antibody (CCNB1/1098)



Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - Azide and BSA Free [NBP2-47893] - Human Endometrial Carcinoma stained with Cyclin B1 Monoclonal Antibody (CCNB1/1098)





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Products Related to NBP2-47893-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-98919-20ug	Recombinant Human Cyclin B1 His Protein

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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