

# Product Datasheet

## Cyclin B1 Antibody (CCNB1/1098) - IHC-Prediluted NBP2-48117

Unit Size: 7 ml

Store at 4C.

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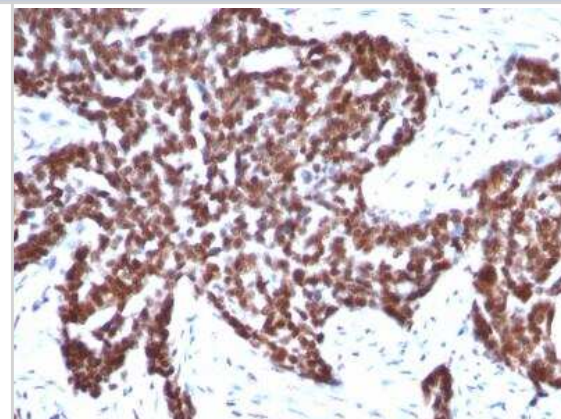


**NBP2-48117****Cyclin B1 Antibody (CCNB1/1098) - IHC-Prediluted**

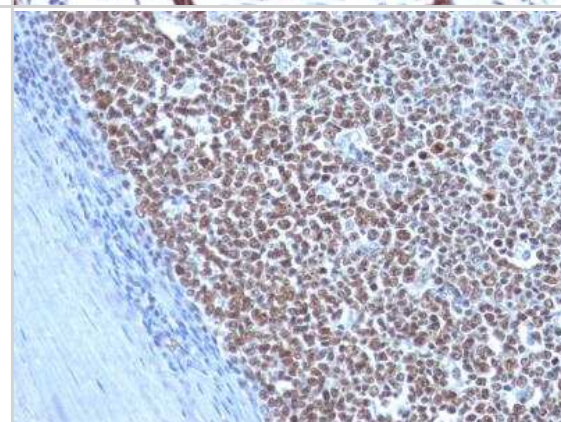
<b>Product Information</b>	
<b>Unit Size</b>	7 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	CCNB1/1098
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Product Description</b>	
<b>Description</b>	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining.
<b>Host</b>	Mouse
<b>Gene ID</b>	891
<b>Gene Symbol</b>	CCNB1
<b>Species</b>	Human, Mouse
<b>Specificity/Sensitivity</b>	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.
<b>Immunogen</b>	Recombinant human full-length Cyclin B1 protein (Uniprot: P14635)
<b>Product Application Details</b>	
<b>Applications</b>	Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Application Notes</b>	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

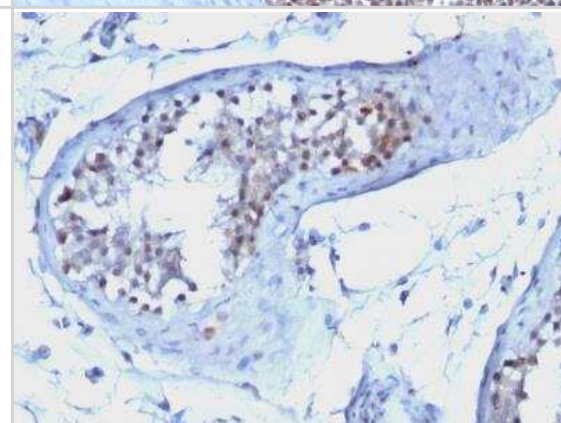
Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - IHC-Prediluted [NBP2-48117] - Human Ovarian Carcinoma stained with Cyclin B1 Mouse Monoclonal Antibody (CCNB1/1098).



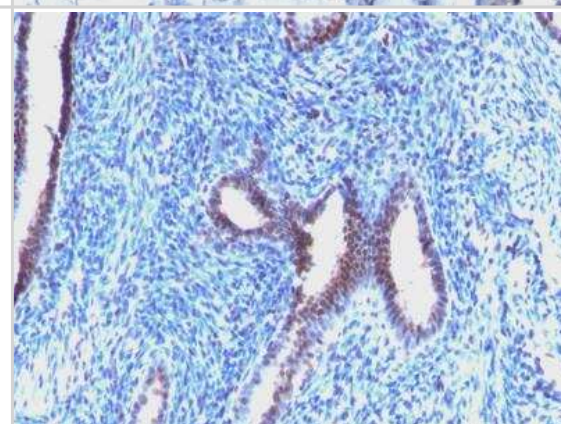
Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - IHC-Prediluted [NBP2-48117] - Human Tonsil stained with Cyclin B1 Mouse Monoclonal Antibody (CCNB1/1098).



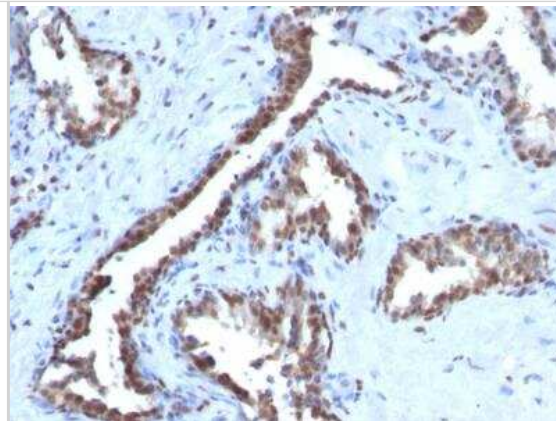
Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - IHC-Prediluted [NBP2-48117] - Human Testicular Carcinoma stained with Cyclin B1 Mouse Monoclonal Antibody (CCNB1/1098).



Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - IHC-Prediluted [NBP2-48117] - Human Endometrial Carcinoma stained with Cyclin B1 Mouse Monoclonal Antibody (CCNB1/1098).



Immunohistochemistry-Paraffin: Cyclin B1 Antibody (CCNB1/1098) - IHC-Prediluted [NBP2-48117] - Human Prostate Carcinoma stained with Cyclin B1 Mouse Monoclonal Antibody (CCNB1/1098).





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### **Products Related to NBP2-48117**

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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

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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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