

Product Datasheet

Cyclin B1 Antibody / CCNB1 (orb2639388)

Description	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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IF, IHC-P
Immunogen	Recombinant human full-length protein was used as the immunogen for the Cyclin B1 antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the SLAMF5 antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa

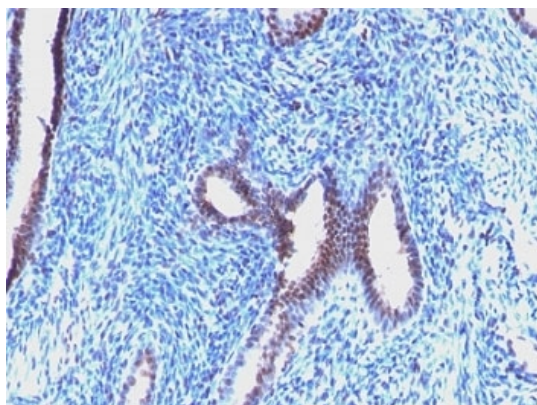
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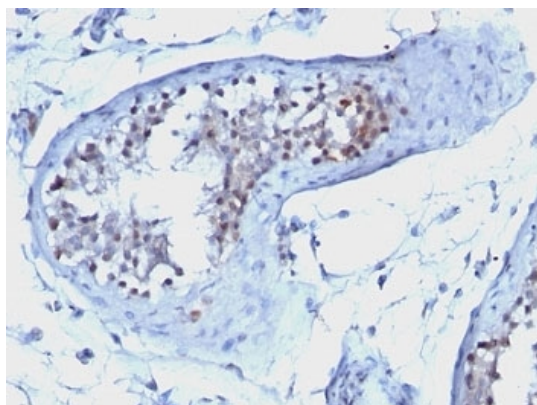
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Clonality	Monoclonal
Clone Number	CCNB1/1098
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P14635
Hazard Information	This Cyclin B1 antibody is available for research use only.
Dilution Range	Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with Cyclin B1 antibody (CCNB1/1098).



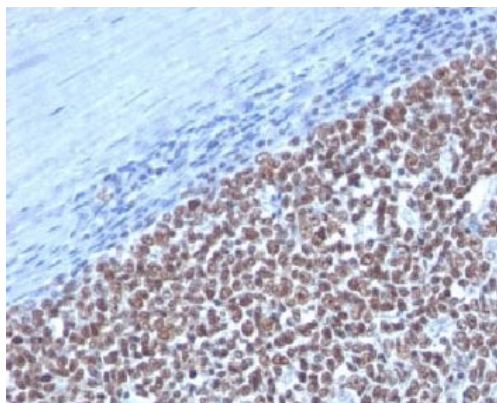
IHC: Formalin-fixed, paraffin-embedded human testicular carcinoma stained with Cyclin B1 antibody.

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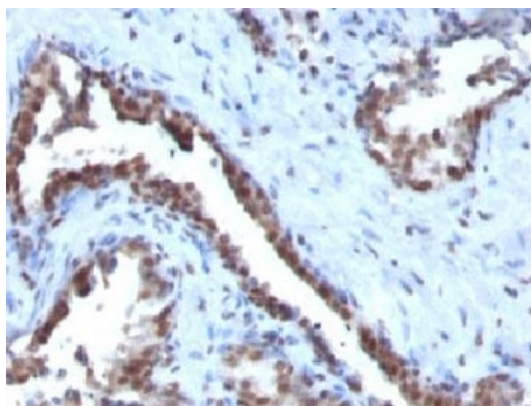
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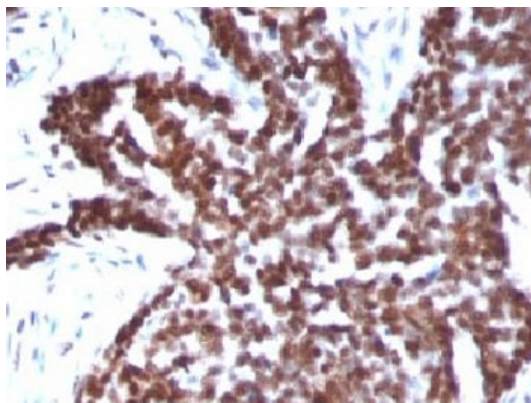
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IHC: Formalin-fixed, paraffin-embedded human tonsil stained with Cyclin B1 antibody.



IHC: Formalin-fixed, paraffin-embedded human prostate carcinoma stained with Cyclin B1 antibody.



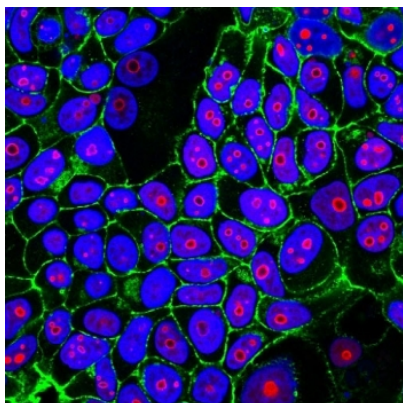
IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with Cyclin B1 antibody.

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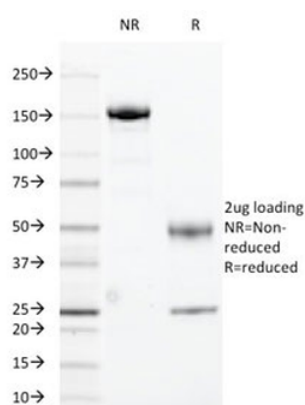
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Immunofluorescent staining of human MCF7 cells with Cyclin B1 antibody (clone CCNB1/1098, red), phalloidin (actin, green) and Hoechst (nuclei, blue).



SDS-PAGE analysis of purified, BSA-free Cyclin B1 antibody (clone CCNB1/1098) as confirmation of integrity and purity.

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