

DP137-05**Polyclonal Antibody to Cyclin B1 - Purified****Alternate names:**

CCNB, CCNB1, Cyclin-B1, G2/mitotic-specific cyclin-B1

Quantity:

0.5 ml

Background:

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.

Uniprot ID:[P14635](#)**NCBI:**[NP_114172.1](#)**GeneID:**[891](#)**Host:**

Rabbit

Immunogen:

A synthetic peptide derived from C-terminus of human cyclin B1 protein

Format:**State:** Liquid purified Ig fraction containing sodium azide as preservative**Applications:**

Immunohistochemistry on formalin-fixed paraffin embedded sections: dilute 1:50-1:100 in an ABC method (incubation time: 30 minutes at room temperature).

Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining.

Recommended positive control: Breast carcinoma.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Reacts to Cyclin B1.

Cellular localization: cytoplasmic.

Species: Human, Mouse, Rat.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures:

Formalin fixed paraffin embedded human breast carcinoma stained with Cyclin B1 antibody. DP137

