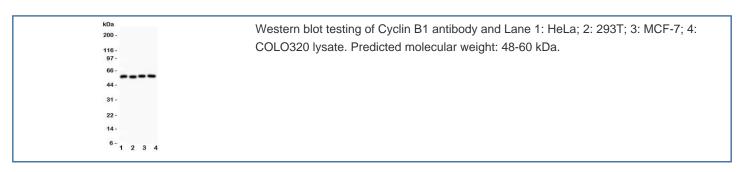


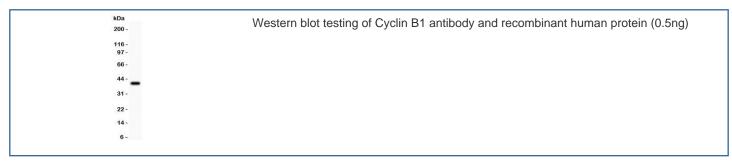
# Cyclin B1 Antibody (R31529)

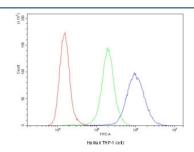
Catalog No.	Formulation	Size
R31529	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

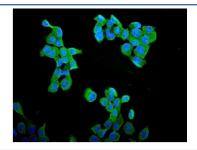
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	891
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Cyclin B1 antibody is available for research use only.







Flow cytometry testing of human THP-1 cells with Cyclin B1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Cyclin B1 antibody.



Immunofluorescent staining of FFPE human A431 cells with Cyclin B1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

### **Description**

Cyclin B1 is a protein that in humans is encoded by the CCNB1 gene, and it is mapped to 5q13.2. It is a regulatory protein involved in mitosis. The gene product complexes withp34(Cdc2)to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-regulated transcript, that is expressed predominantly during G2/M phase. The different transcripts result from the use of alternate transcription initiation sites. CCNB1 contributes to the switch-like all or none behavior of the cell in deciding to commit to mitosis. Its activation is well-regulated, and positive feedback loops ensure that once the Cyclin B1-Cdk1 complex is activated, it is not deactivated.

#### **Application Notes**

The stated application concentrations are suggested starting amounts. Titration of the Cyclin B1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

#### **Immunogen**

Human partial recombinant protein (AA 1-433) was used as the immunogen for this Cyclin B1 antibody.

#### **Storage**

After reconstitution, the Cyclin B1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.