

## Basic Information

<b>Product Name</b>	Anti-Cyclin B1/CCNB1 Antibody (Clone#EOG-3)	
<b>Gene Name</b>	CCNB1	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, ICC/IF, FCM	
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthesized peptide derived from human Cyclin B1	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Affinity-chromatography	
<b>Observed MW</b>	55 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	Flow Cytometry (FCM):	1:100

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

CCNB also known as Cyclin B1, is a protein that in humans is encoded by the CCNB1 gene, and it is mapped to 5q13.2. The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product complexes with p34(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. CCNB 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.

## Reference

Anti-Cyclin B1/CCNB1 Antibody (Clone#EOG-3)被引用在4文献中。

## Selected Validation Data

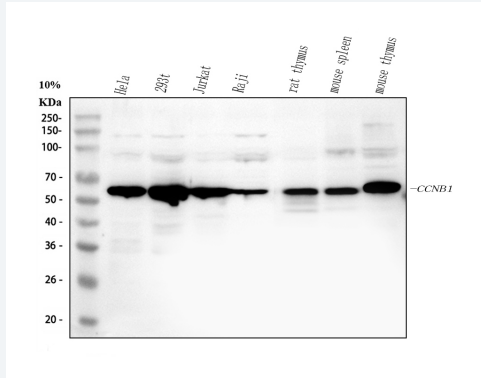
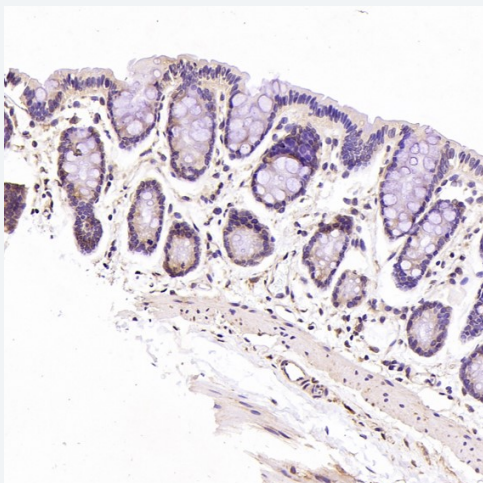


Figure 1. Western blot analysis of anti-Cyclin B1/CCNB1 antibody (BM4370). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,  
Lane 2: human 293T whole cell lysates,  
Lane 3: human Jurkat whole cell lysates,  
Lane 4: human Raji whole cell lysates,  
Lane 5: rat thymus tissue lysates,  
Lane 6: mouse spleen tissue lysates,  
Lane 7: mouse thymus tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Cyclin B1/CCNB1 antigen affinity purified monoclonal antibody (BM4370) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Cyclin B1/CCNB1 at approximately 55 kDa. The expected band size for Cyclin B1/CCNB1 is at 48 kDa.



Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:200 dilution.