
Product Name: KD-Validated Cyclin B1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00220

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 48.3kDa

Antigen Information

Gene Name	CCNB1
Alternative Names	CCNB1; Cyclin B1; CCNB; G2/Mitotic-Specific Cyclin-B1; G2/Mitotic-Specific Cyclin B1
Gene ID	891.0
SwissProt ID	P14635
Immunogen	A synthesized peptide derived from human Cyclin B1

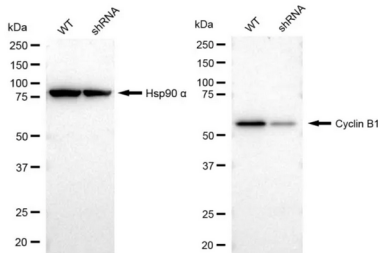
Background

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). The encoded protein is necessary for proper control of the G2/M transition phase of the cell cycle. [provided by RefSeq, Aug 2017]

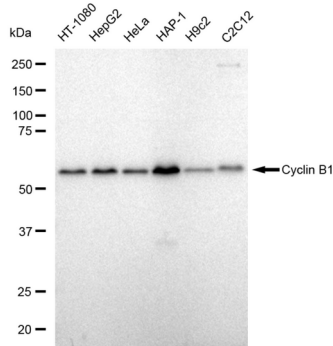
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Cancer

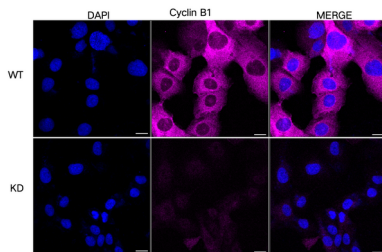
Image Data



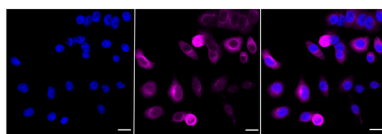
Western blotting analysis using Cyclin B1 antibody (KVA00220). Cyclin B1 expression in wild type (WT) and cyclin B1 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Cyclin B1 antibody (KVA00220, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



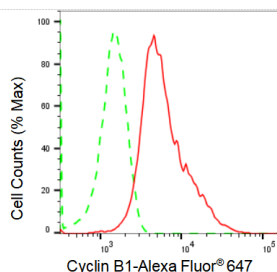
Western blotting analysis using Cyclin B1 antibody (KVA00220). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Cyclin B1 antibody (KVA00220, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells using Cyclin B1 antibody (KVA00220, 1:1,000). Top panel: wild-type (WT); Bottom panel: Cyclin B1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Cyclin B1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Cyclin B1 antibody (KVA00220, 1:1,000). Nuclei were stained blue with DAPI; Cyclin B1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of Cyclin B1 expression in HepG2 cells using Cyclin B1 antibody (KVA00220, 1:2,000). Green, isotype control; red, Cyclin B1.