10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Cyclin B1 Antibody [KO/KD Validated]

Catalog # AP59503

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P14635
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48337

Additional Information

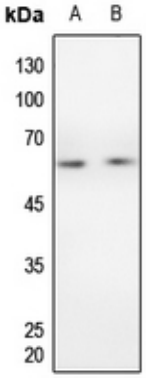
Gene ID	891
Other Names	CCNB; G2/mitotic-specific cyclin-B1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cyclin B1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

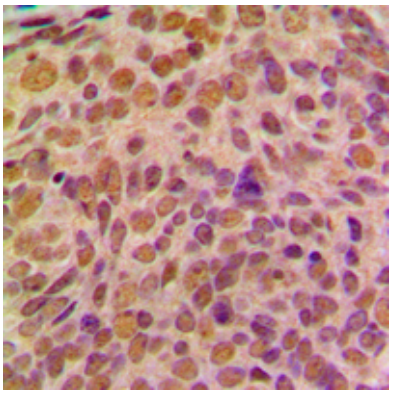
Name	CCNB1
Synonyms	CCNB
Function	Essential for the control of the cell cycle at the G2/M (mitosis) transition (PubMed:27030811, PubMed:17495531, PubMed:17495533). Binds and activates cyclin-dependent protein kinase CDK1/CDC2 (PubMed:41100585).
Cellular Location	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

Images

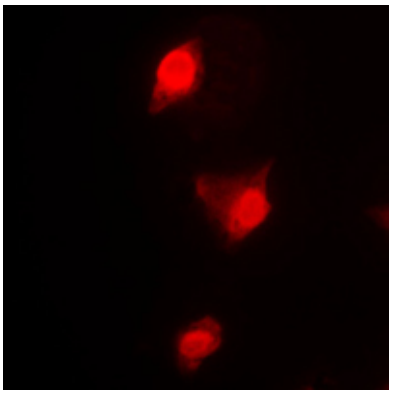
Western blot analysis of Cyclin B1 expression in HEK293T



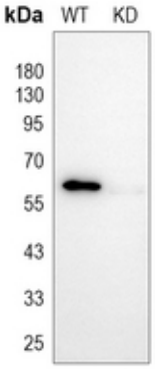
(A), Hela (B) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 60 kD)



Immunohistochemical analysis of Cyclin B1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

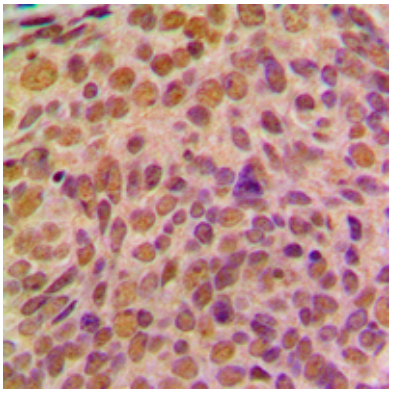


Immunofluorescent analysis of Cyclin B1 staining in K562 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.



Western blot analysis of Cyclin B1 expression in wild type (WT) and knockdown (KD) HeLa cell lysates.

Immunohistochemical analysis of Cyclin B1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.