

Recombinant Anti-Cyclin B1 Rabbit mAb

Catalog # AP94933

Product Information

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

Additional Information

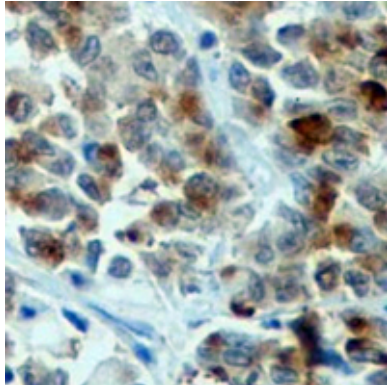
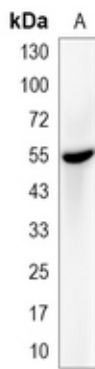
Gene ID	891
Other Names	CCNB; G2/mitotic-specific cyclin-B1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human Cyclin B1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

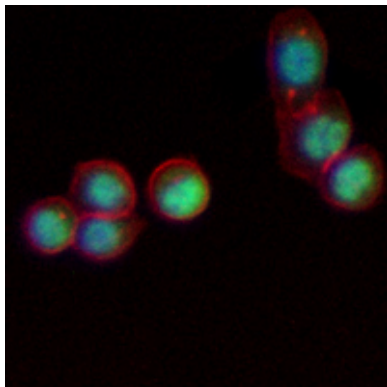
Name	CCNB1
Synonyms	CCNB
Function	Essential for the control of the cell cycle at the G2/M (mitosis) transition (PubMed: 27030811 , PubMed: 17495531 , PubMed: 17495533). Binds and activates cyclin-dependent protein kinase CDK1/CDC2 (PubMed: 41100585).
Cellular Location	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton,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

Images

Western blot analysis of Cyclin B1 expression in HeLa (A) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 55 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 HeLa 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 an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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