

36-3443: Anti-Cyclin B1 (G2- & M-phase Cyclin) Monoclonal Antibody(Clone: V92.1)

Clonality :	Monoclonal
Clone Name :	V92.1
Application :	FACS,IF,IP
Reactivity :	Human, Mouse
Gene :	CCNB1
Gene ID :	891
Uniprot ID :	P14635
Alternative Name :	CCNB, CCNB1, CCNB1_HUMAN, G2 Mitotic Specific Cyclin B1
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Hamster Cyclin B1 protein

Description

It recognizes a protein of 55-62kDa, identified as cyclin B1. In mammals, cyclin B associates with inactive p34cdc2, which facilitates phosphorylation of p34cdc2 at aa 14Thr and 15Tyr. This maintains the inactive state until the end of G2-phase. The inactive cyclin B-p34cdc2 complex continues to accumulate in the cytoplasm until the completion of DNA synthesis, when Cdc25, a specific protein phosphatase, dephosphorylates aa 14Thr and 15Tyr of p34cdc2 rendering the complex active at the G2/M boundary. This mitotic kinase complex remains active until the metaphase/anaphase transition when cyclin B is degraded. This degradation process is ubiquitin-dependent and is necessary for the cell to exit mitosis. So, cyclin B-p34cdc2 plays a critical role in G2 to M transition.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunoprecipitation (1-2ug/500ug protein) (precipitates active CDK1/cyclin B1 complexes);

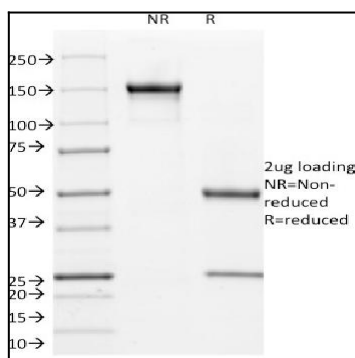


Fig. 1: SDS-PAGE Analysis Purified Cyclin B1 Mouse Monoclonal Antibody (V92.1). Confirmation of Integrity and Purity of Antibody.