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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

200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS Content:

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody Storage condition:

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);

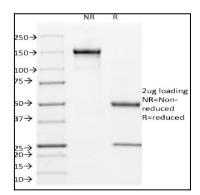


Fig. 1: SDS-PAGE Analysis Purified Cyclin B1 Mouse Monoclonal Antibody (V92.1). Confirmation of Integrity and Purity of Antibody.