

Product datasheet for **AM33367PU-S**

Cyclin B1 (CCNB1) Mouse Monoclonal Antibody [Clone ID: V92.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	V92.1
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	ELISA: Use BSA free Antibody for coating. Flow Cytometry: 0.5-1 µg/million cells. Immunofluorescence: 1-2 µg/ml. Western Blotting: 0.5-1 µg/ml. Immunoprecipitation: 1-2 µg/500 µg protein lysate. Immunohistochemistry on Frozen Sections: 1-2 µg/ml for 30 minutes at RT. Positive Control: Any human cell line in logarithmic growth phase, tonsil, or breast carcinoma.
Reactivity:	Hamster, Human, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Hamster Cyclin B1 protein.
Specificity:	This antibody recognizes a protein of 55-62kDa, identified as Cyclin B1. Cellular Localization: Cytoplasmic.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.



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Predicted Protein Size: 55-62 kDa

Gene Name: cyclin B1

Database Link: [Entrez Gene 891 Human P14635](#)

Background: Cyclins are evolutionarily conserved regulatory proteins that are essential for controlling the progression of the cell-cycle. Proliferating cells express both cyclin B1 and cyclin B2; expression is normally low in G0/G1, increases in S, and is maximal during the G2/M phase of cell division. Cyclin B1 can be found both on intracellular membranes and free in the cytoplasm, in contrast to cyclin B2, which is membrane-associated. Cyclin B1 binds to p34Cdc2, also known as Cdk1, a cyclin-dependent kinase, to form an inactive complex that accumulates in the cytoplasm. Dephosphorylation by Cdc25 results in activation of the complex and translocation to the nucleus. Cyclin B1 is rapidly degraded at the end of mitosis, and this degradation is essential for cells to exit from mitosis.

Synonyms: CCNB1, CCNB, Cyclin-B1