

Human/Mouse Cyclin B2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6004

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse Cyclin B2 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant mouse Cyclin B2 Ala2-Leu101 Accession # P30276	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

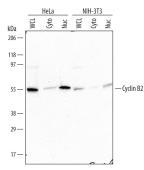
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA

Western Blot



Detection of Human and Mouse Cyclin B2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and NIH-3T3 mouse embryonic fibroblast cell line. Gels were loaded with 30 μg of whole cell lysate (WCL), 20 μg of cytoplasmic (Cyto), and 10 μg of nuclear extracts (Nuc). PVDF Membrane was probed with 0.5 μg/mL of Goat Anti-Human/Mouse Cyclin B2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6004) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF-017). A specific band was detected for Cyclin B2 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Cyclin B2 (also CCNB2 and G2/mitotic-specific Cyclin B2) is a 48-54 kDa member of the cyclin AB subfamily, cyclin family of proteins. It is widely expressed and associates with CDK1. Here, it provides substrate specificity to a phosphorylating complex. A phosphor-CDK1:Cyclin B2 complex is associated with the Golgi apparatus, where it contributes to Golgi fragmentation during mitosis. It is also possible that Cyclin B2 can substitute for Cyclin B1 during the early stages of mitosis. Human Cyclin B2 is 398 amino acids (aa) in length. It contains two cyclin box folds (aa 201-290 and 298-383) and two substrate binding sites (aa 165-254 and 264-347). Phosphorylation occurs at Ser92, Thr94, Ser99, Ser204, Ser392 and Ser398. Over aa 1-101, human Cyclin B2 shares 79% aa identity with mouse Cyclin B2.

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