

## DESCRIPTION

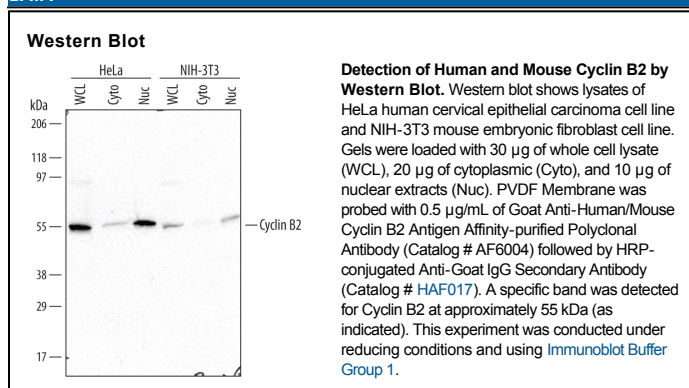
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse Cyclin B2 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Cyclin B2 Ala2-Leu101 Accession # P30276
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
<b>Western Blot</b>	0.5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.