

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                    |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Cyclin B2 in Western blots.                                                |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                     |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Cyclin B2<br>Met1-Lys101<br>Accession # O95067 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm          |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                             |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                          |

#### 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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 providing substrate specificity to a phosphorylating complex. A phosphorCDK1: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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