

#### DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human/Mouse                                                                               |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human and mouse Cyclin A2 in Western blots.                                       |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                       |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                 |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Cyclin A2<br>Ala73-Tyr199<br>Accession # P20248 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

Cyclin A2 (also CCNA2) is a member of the cyclin AB subfamily, cyclin family of proteins. Cyclin A2 is ubiquitously expressed, in contrast to CyclinA1 that only appears in late pachytene spermatocytes. It associates with CDK1 during G2 and M phase, and CDK2 in S phase, of the cell cycle. Binding to SCAPER restricts Cyclin A2 to the cytoplasm. In both compartments, it provides substrate specificity to a phosphorylating complex that promotes entry into, and progression through, mitosis. Human Cyclin A2 is 432 amino acids (aa) in length. It contains two cyclin box folds (aa 210-299 and 309-430) and four acetylation sites that induce molecule turnover (Lys54/68/95/112). Over aa 73-199, human Cyclin A2 shares 83% aa identity with mouse Cyclin A2.

#### PRODUCT SPECIFIC NOTICES

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