

DESCRIPTION

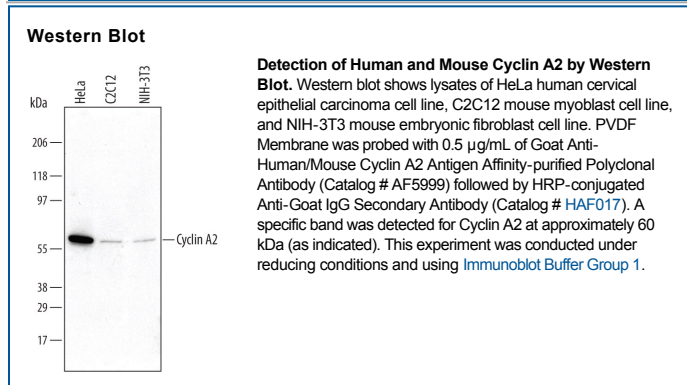
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Cyclin A2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Cyclin A2 Ala73-Tyr199 Accession # P20248
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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



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. <ul style="list-style-type: none"> • 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 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.