

Human/Mouse Cyclin A2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5999

DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human and mouse Cyclin A2 in Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

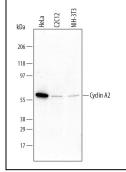
APPLICATIONS

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 A2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, C2C12 mouse myoblast cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF Membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse Cyclin A2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5999) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Cyclin A2 at approximately 60 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 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.

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