
anti-Cdc34

Cat #: HM1081
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by the proteolysis of cyclins. The cell division cycle (Cdc) genes are required at various points in the cell cycle. Cdc34 is a member of the ubiquitin-conjugating enzyme family. Ubiquitin-conjugating enzyme catalyzes the covalent attachment of ubiquitin to other proteins. This protein is a part of the large multiprotein complex, which is required for ubiquitin-mediated degradation of cell cycle G1 regulators, and for the initiation of DNA replication. Cdc34 is thought to be the structural and functional homolog of *Saccharomyces cerevisiae* Cdc34, which is essential for the G1 to S phase transition.

SPECIFICITY

The antibody reacts with Cdc34 of human origin by Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

Recombinant human Cdc34 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCE

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3. King, R.W., Deshaies, R.J., Peters, J.M. and Kirschner, M.W. 1996. How proteolysis drives the cell cycle. *Science* 274:1652-1659.
4. Lisztwan, J., Marti, A., Sutterluty, H., Gstaiger, M., Wirbelauer, C. and Krek, W. 1998. Association of human CUL-1 and ubiquitin-conjugating enzyme CDC34 with the F-box protein p45(SKP2): evidence for evolutionary conservation in the subunit composition of the CDC34-SCF pathway. *EMBO J.* 17: 368-383.
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