

CDC34 (18D17) Rabbit Monoclonal Antibody
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Catalog # AP93691**Specification****CDC34 (18D17) Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, FC, ICC, IP
Primary Accession	P49427
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	26737

CDC34 (18D17) Rabbit Monoclonal Antibody - Additional Information**Gene ID** 997**Other Names**

Ubiquitin-conjugating enzyme E2 R1, 2.3.2.23, (E3-independent) E2 ubiquitin-conjugating enzyme R1, 2.3.2.24, E2 ubiquitin-conjugating enzyme R1, Ubiquitin-conjugating enzyme E2-32 kDa complementing, Ubiquitin-conjugating enzyme E2-CDC34, Ubiquitin-protein ligase R1, CDC34, UBCH3, UBE2R1

Dilution

WB~~1:1000
IF~~1:50~200
FC~~1:10~50
ICC~~N/A
IP~~N/A

Storage Conditions

-20°C

CDC34 (18D17) Rabbit Monoclonal Antibody - Protein Information**Name** CDC34**Synonyms** UBCH3, UBE2R1**Function**

E2 ubiquitin-conjugating enzyme that accepts ubiquitin from an E1 ubiquitin-activating protein, and catalyzes its covalent attachment to other proteins by an E3 ubiquitin-protein ligase complex (PubMed: [10329681](http://www.uniprot.org/citations/10329681), PubMed: [17588522](http://www.uniprot.org/citations/17588522), PubMed: [20061386](http://www.uniprot.org/citations/20061386), PubMed: [38326650](http://www.uniprot.org/citations/38326650)). In vitro catalyzes 'Lys-48'-linked polyubiquitination (PubMed: [22496338](http://www.uniprot.org/citations/22496338)). Cooperates with the E2 UBCH5C and the SCF(FBXW11) E3 ligase complex for the polyubiquitination of NFKBIA

leading to its subsequent proteasomal degradation (PubMed:10329681, PubMed:10918611, PubMed:17698585). Performs ubiquitin chain elongation building ubiquitin chains from the UBE2D3-primed NFKBIA-linked ubiquitin. UBE2D3 acts as an initiator E2, priming the phosphorylated NFKBIA target at positions 'Lys-21' and/or 'Lys-22' with a monoubiquitin. Cooperates with the SCF(SKP2) E3 ligase complex to regulate cell proliferation through ubiquitination and degradation of MYBL2 and KIP1 (PubMed:10871850, PubMed:15652359, PubMed:19112177). Involved in ubiquitin conjugation and degradation of CREM isoform ICERIIgamma and ATF15 resulting in abrogation of ICERIIgamma- and ATF5-mediated repression of cAMP-induced transcription during both meiotic and mitotic cell cycles. Involved in the regulation of the cell cycle G2/M phase through its targeting of the WEE1 kinase for ubiquitination and degradation (PubMed:19126550). Also involved in the degradation of beta-catenin (PubMed:12037680). Is target of human herpes virus 1 protein ICP0, leading to ICP0-dependent dynamic interaction with proteasomes (PubMed:11805320, PubMed:12060736).

Cellular Location

Cytoplasm. Nucleus. Note=The phosphorylation of the C-terminal tail plays an important role in mediating nuclear localization. Colocalizes with beta-tubulin on mitotic spindles in anaphase

Tissue Location

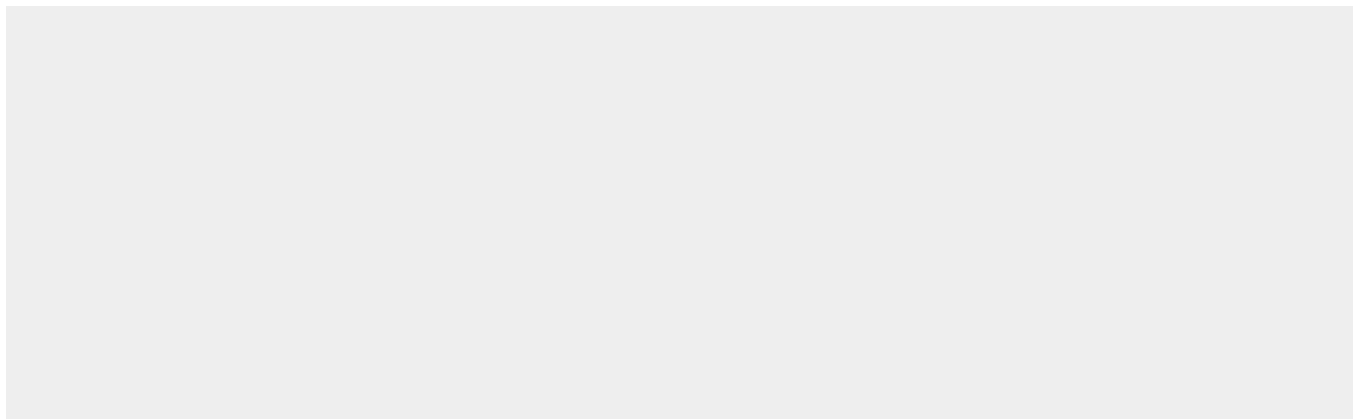
Expressed in testes during spermatogenesis to regulate repression of cAMP-induced transcription

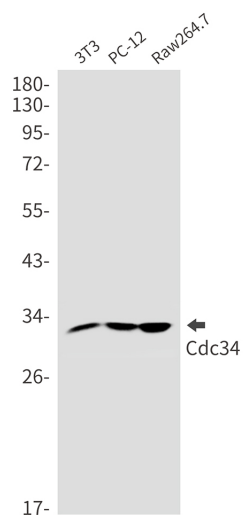
CDC34 (18D17) Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CDC34 (18D17) Rabbit Monoclonal Antibody - Images





Western blot detection of Cdc34 in HL-60,U251,U87-MG cell lysates using Cdc34 antibody(1:1000 diluted).