

**CDC34 Rabbit mAb**  
**Catalog # AP76432****Specification****CDC34 Rabbit mAb - Product Information**

Application	WB, IP
Primary Accession	<a href="#">P49427</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	26737

**CDC34 Rabbit mAb - Additional Information****Gene ID** 997**Other Names**  
CDC34**Dilution**WB~~1/500-1/1000  
IP~~1/20**Format**

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

**Storage**

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

**CDC34 Rabbit mAb - 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:<a href="http://www.uniprot.org/citations/10329681" target="\_blank">10329681</a>, PubMed:<a href="http://www.uniprot.org/citations/17588522" target="\_blank">17588522</a>, PubMed:<a href="http://www.uniprot.org/citations/20061386" target="\_blank">20061386</a>, PubMed:<a href="http://www.uniprot.org/citations/38326650" target="\_blank">38326650</a>). In vitro catalyzes 'Lys-48'-linked polyubiquitination (PubMed:<a href="http://www.uniprot.org/citations/22496338" target="\_blank">22496338</a>). Cooperates with the E2 UBCH5C and the SCF(FBXW11) E3 ligase complex for the polyubiquitination of NFKBIA leading to its subsequent proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/10329681" target="\_blank">10329681</a>, PubMed:<a href="http://www.uniprot.org/citations/10918611" target="\_blank">10918611</a>, PubMed:<a href="http://www.uniprot.org/citations/10918611" target="\_blank">10918611</a>, PubMed:<a href="http://www.uniprot.org/citations/10918611" target="\_blank">10918611</a>).

href="http://www.uniprot.org/citations/17698585" target="\_blank">>17698585</a>). 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:<a href="http://www.uniprot.org/citations/10871850" target="\_blank">>10871850</a>, PubMed:<a href="http://www.uniprot.org/citations/15652359" target="\_blank">>15652359</a>, PubMed:<a href="http://www.uniprot.org/citations/19112177" target="\_blank">>19112177</a>). 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:<a href="http://www.uniprot.org/citations/19126550" target="\_blank">>19126550</a>). Also involved in the degradation of beta-catenin (PubMed:<a href="http://www.uniprot.org/citations/12037680" target="\_blank">>12037680</a>). Is target of human herpes virus 1 protein ICP0, leading to ICP0-dependent dynamic interaction with proteasomes (PubMed:<a href="http://www.uniprot.org/citations/11805320" target="\_blank">>11805320</a>, PubMed:<a href="http://www.uniprot.org/citations/12060736" target="\_blank">>12060736</a>).

#### 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 Rabbit mAb - 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 Rabbit mAb - Images

