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# CDC34 Antibody (N-term) Blocking Peptide

**Synthetic peptide**
**Catalog # BP2116a**

## Specification

### CDC34 Antibody (N-term) Blocking Peptide - Product Information

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|---|---|
| Primary Accession | P49427 |
| Other Accession | NP_004350 |

### CDC34 Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID** 997

**Other Names**
Ubiquitin-conjugating enzyme E2 R1, Ubiquitin-conjugating enzyme E2-32 kDa complementing, Ubiquitin-conjugating enzyme E2-CDC34, Ubiquitin-protein ligase R1, CDC34, UBCH3, UBE2R1

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP2116a>AP2116a</a> was selected from the N-term region of human CDC34 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### CDC34 Antibody (N-term) Blocking Peptide - Protein Information

**Name** CDC34

**Synonyms** UBCH3, UBE2R1

**Function**
Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. 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. 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. 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. Also involved in the degradation of beta-catenin. 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/10329681" target="_blank">10329681</a>, PubMed:<a href="http://www.uniprot.org/citations/10373550" target="_blank">10373550</a>, PubMed:<a href="http://www.uniprot.org/citations/10871850" target="_blank">10871850</a>, PubMed:<a href="http://www.uniprot.org/citations/11675391" target="_blank">11675391</a>, PubMed:<a href="http://www.uniprot.org/citations/12037680" target="_blank">12037680</a>, PubMed:<a href="http://www.uniprot.org/citations/15652359" target="_blank">15652359</a>, PubMed:<a href="http://www.uniprot.org/citations/17461777" target="_blank">17461777</a>, PubMed:<a href="http://www.uniprot.org/citations/17698585" target="_blank">17698585</a>, PubMed:<a href="http://www.uniprot.org/citations/19112177" target="_blank">19112177</a>, PubMed:<a href="http://www.uniprot.org/citations/19126550" target="_blank">19126550</a>, PubMed:<a href="http://www.uniprot.org/citations/19945379" target="_blank">19945379</a>, PubMed:<a href="http://www.uniprot.org/citations/20061386" target="_blank">20061386</a>, PubMed:<a href="http://www.uniprot.org/citations/20347421" target="_blank">20347421</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 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

## CDC34 Antibody (N-term) Blocking Peptide - Images

## CDC34 Antibody (N-term) Blocking Peptide - Background

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 Antibody (N-term) Blocking Peptide - References

Pati, D., et al., Mol. Cell. Biol. 19(7):5001-5013 (1999).Seol, J.H., et al., Genes Dev. 13(12):1614-1626 (1999).Lisztwan, J., et al., EMBO J. 17(2):368-383 (1998).Pagano, M., FASEB J. 11(13):1067-1075 (1997).King, R.W., et al., Science 274(5293):1652-1659 (1996).