

## Anti-CDC34/Ubch3 Rabbit Monoclonal Antibody Catalog # ABO13715

### Specification

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#### Anti-CDC34/Ubch3 Rabbit Monoclonal Antibody - Product Information

Application	WB, IF, ICC, IP, FC
Primary Accession	<a href="#">P49427</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-CDC34/Ubch3 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-CDC34/Ubch3 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

#### Calculated MW

26737 MW KDa

#### Application Details

WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

#### Subcellular Localization

Cytoplasm. Nucleus. 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 Specificity

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

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human CDC34

#### Purification

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## Anti-CDC34/Ubch3 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: <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/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

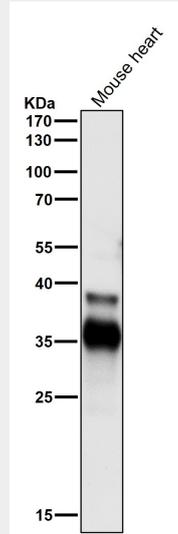
Expressed in testes during spermatogenesis to regulate repression of cAMP-induced transcription

## Anti-CDC34/Ubch3 Rabbit Monoclonal Antibody - Protocols

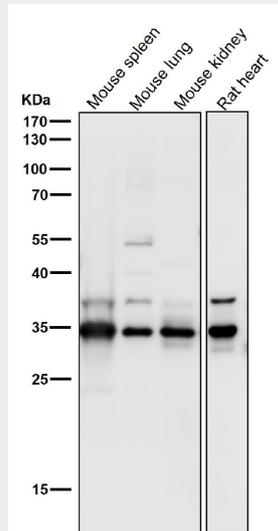
Provided below are standard protocols that you may find useful for product applications.

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

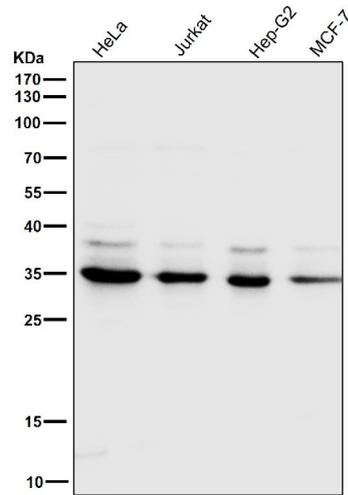
### Anti-CDC34/Ubch3 Rabbit Monoclonal Antibody - Images



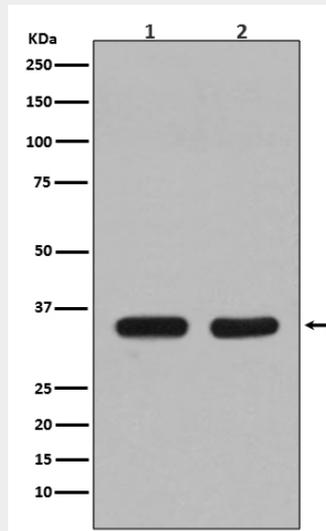
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



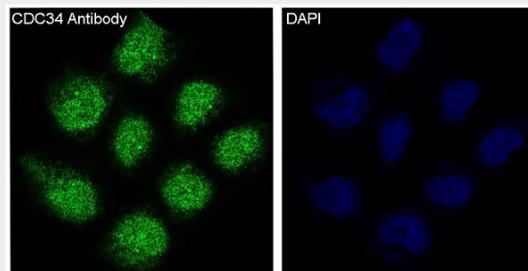
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Western blot analysis of CDC34 expression in (1) Jurkat cell lysate; (2) NIH/3T3 cell lysate.



Immunofluorescent analysis of HeLa cells, using CDC34 Antibody.