

Product datasheet

Recombinant Human Cdc34 protein ab58720

製品の概要

製品名	Recombinant Human Cdc34 protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
生物種	Human

特性

Our [Abpromise guarantee](#) covers the use of **ab58720** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE Functional Studies
精製度	> 95 % SDS-PAGE.

製品の状態	Liquid
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前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Preservative: None Constituents: 10% Glycerol, 50mM Sodium chloride, 50mM HEPES, 1mM DTT, pH 8.0
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関連情報

機能	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-48'-linked polyubiquitination. 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
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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.

組織特異性

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

パスウェイ

Protein modification; protein ubiquitination.

配列類似性

Belongs to the ubiquitin-conjugating enzyme family.

ドメイン

The C-terminal acidic tail is required for nuclear localization and is involved in the binding to SCF E3 ligase complexes, and more specifically with the CUL1 subunit.

翻訳後修飾

Autoubiquitinated. Autoubiquitination is promoted by the human herpes virus 1 protein ICP0 and leads to degradation by the Ubiquitin-proteasomal pathway.

Phosphorylated by CK2. Phosphorylation of the C-terminal tail by CK2 controls the nuclear localization.

細胞内局在

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.

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