

Product datasheet

Recombinant Human Cdc34 protein ab151828

1 Image

Description	
Product name	Recombinant Human Cdc34 protein
Purity	> 75 % SDS-PAGE. assessed by densitometry
Expression system	Escherichia coli
Accession	<u>P49427</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MARPLVPSSQKALLLELKGLQEEPVEGFRVTLVDEGDLY NWEVAIFGPPN TYEGGYFKARLKFPIDYPSPPAFRFLTKMWHPNIYETGD VCISILHPP VDDPQSGELPSERWNPTQNVRTILLSVISLLNEPNTFSPA NVDASVMYRK WKESKGKDREYTDIIRKQVLGTKVDAERDGVKVPTTLAEY CVKTKAPAPD EGSDLFYDDYYEDGEVEEEEADSCFGDDEDDSGTEES
Predicted molecular weight	33 kDa including tags
Amino acids	1 to 236
Tags	His tag N-Terminus

Specifications	
Our Abpromise guarantee covers the use of ab151828 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	Western blot SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 7.00

Preservative: 1.02% Imidazole

Constituents: 0.002% PMSF, 0.82% Sodium phosphate, 0.004% DTT, 25% Glycerol (glycerin, glycerine), 1.76% Sodium chloride

General Info

Function

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 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.

Tissue specificity

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

Pathway

Protein modification; protein ubiquitination.

Sequence similarities

Belongs to the ubiquitin-conjugating enzyme family.

Domain

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.

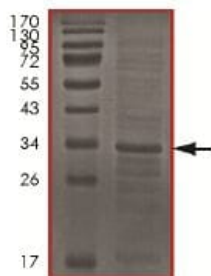
Post-translational modifications

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.

Cellular 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.

Images



SDS-PAGE - Recombinant Human Cdc34 protein
(ab151828)

SDS-PAGE analysis of ab151828 which was determined to be
>75% pure by densitometry.

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