

Recombinant Human Cullin 1/CUL-1 protein ab131835

1 Image

Description

Product name	Recombinant Human Cullin 1/CUL-1 protein
Expression system	Wheat germ
Accession	<u>Q13616</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MSSTRSQNP HGLKQIGLDQIWDDL RAGIQQVYTRQ SMAKS RYMELYTHVY NYCTSVHQSNQARGAGVPPSKSKKGGQTPGGAQFVGLEL YKRLKEFLKNYL TNLLKDGEDLMDESVLK FYTQQWEDYRFSSKVLNGICAYL NRHWVRRECD EGRKGIYEIYSLALVTWRDCLFRPLNKQVTNAV LKIEKER NGETINTRL ISGVVQSYVELGLNEDDAFAKGP TLTVYKESFESQFLADT ERFYTRESTE FLQQNPVTEYMKKAEARLLEEQR RVQVYLHESTQDELAR KCEQVLIEKHL EIFHTEFQNL LDADKNEDLGRMYNLVSRIQDGLGELKKLLE THIHNQGLA AIEKCGEAA LNDPKMYVQTVLDVHKKYNALVMSAFN NDA GFVAALDKACG RFINNNAVTKMAQSSSKSPELLARYCDSLLKKSSKNPEEA ELEDTLNQVM VVFKYIEDKDV FQKFYAKMLAKRLVHQNSASDDAEASMS KLKQACGF EY TSKLQRMFQDIGVSKDLNEQFKKHL TNSEPLDLDFS IQVL SSGSWPFQ QS CTFALPSE LERSYQRFTA FYASRHSGRKLTWLYQLSKGEL VTNCFKNRYT LQASTFQMAILLQYNTEDAYTVQQLTDSTQIKMDILAQVLQI LLKSKLLV LEDENANVDEVELKPD TLIKLYLGYKNKKLRVNINVPMKTE QKQEQETH</p>

KNIEEDRKLIIQAAMRIMKMRKVLKHQQLLGEVLTQLSSRF
KPRVPVIK KCIDILIEKEYLERVDGEKDTYSYLA

Predicted molecular weight	116 kDa including tags
Amino acids	1 to 776
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab131835** 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 ELISA
Form	Liquid
Additional notes	This product was previously labelled as Cullin 1.

Preparation and Storage

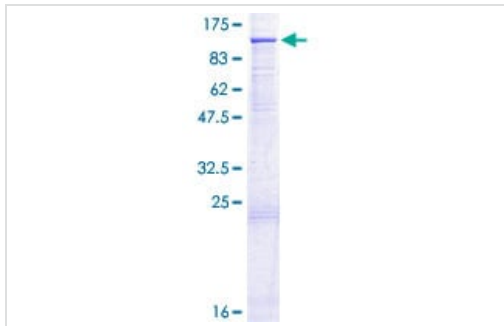
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

Function	<p>Core component of multiple cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, serves as a rigid scaffold that organizes the SKP1-F-box protein and RBX1 subunits. May contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1. The functional specificity of the SCF complex depends on the F-box protein as substrate recognition component.</p> <p>SCF(BTRC) and SCF(FBXW11) direct ubiquitination of CTNNB1 and participate in Wnt signaling. SCF(FBXW11) directs ubiquitination of phosphorylated NFKBIA. SCF(BTRC) directs ubiquitination of NFKBIB, NFKBIE, ATF4, SMAD3, SMAD4, CDC25A, FBXO5 and probably NFKB2. SCF(SKP2) directs ubiquitination of phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. SCF(SKP2) directs ubiquitination of ORC1, CDT1, RBL2, ELF4, CDKN1A, RAG2, FOXO1A, and probably MYC and TAL1. SCF(FBXW7) directs ubiquitination of cyclin E, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1.</p> <p>SCF(FBXW2) directs ubiquitination of GCM1. SCF(FBXO32) directs ubiquitination of MYOD1. SCF(FBXO7) directs ubiquitination of BIRC2 and DLGAP5. SCF(FBXO33) directs ubiquitination of YBX1. SCF(FBXO11) does not seem to direct ubiquitination of TP53. SCF(BTRC) mediates the ubiquitination of NFKBIA at 'Lys-21' and 'Lys-22'; the degradation frees the associated NFKB1-RELA dimer to translocate into the nucleus and to activate transcription. SCF(Cyclin F) directs ubiquitination of CP110.</p>
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Tissue specificity	Expressed in lung fibroblasts.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Belongs to the cullin family.
Post-translational modifications	Neddylated; which enhances the ubiquitination activity of SCF. Deneddylated via its interaction with the COP9 signalosome (CSN) complex. Deneddylated by Epstein-Barr virus BPLF1 leading to a S-phase-like environment that is required for efficient replication of the viral genome.

Images



12.5% SDS-PAGE analysis of ab131835 stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Cullin 1/CUL-1 protein (ab131835)

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