

Recombinant Human Cullin 1/CUL-1 protein ab131835

1 图像

描述	
产品名称	重组人Cullin 1/CUL-1蛋白
表达系统	Wheat germ
Accession	<u>Q13616</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MSSTRSQNP HGLKQIGLDQIWDDL RAGIQQVYTRQSMASRY MELYTHVY NYCTSVHQSNQARGAGVPPSKSKKGQTPGGAQFVGLELYKRL KEFLKNYL TNLLKDGEDLMDESVLKFYTQQWEDYRFSSKVLNGICAYLNR HWVRRECD EGRKGIYEIYSLALVTWRDCLFRPLNKQVTNAVLK LIEKERN GETINTRL ISGVVQSYVELGLNEDDAFAKGPTLTVYKESFESQFLADTER FYTRESTE FLQQNPVTEYMKKAEARLLEEQR RVQVYLHESTQDELARKCE QVLIEKHL EIFHTEFQNL LDADKNEDLGRMYNLVSRIQDGLGELKKLLET HIHNQGLA AIEKCGEAALNDPKMYVQTVLDVHKKYNALVMSAFNNDAGFV AALDKACG RFINNNAVTKMAQSSSKSPELLARYCDSLLKKSSKNPEEAEL EDTLNQVM VVF KYIEDKDV FQKFYAKMLAKRLVHQNSASDDAEASMISKL KQACGF EY TSKLQRMFQDIGVSKDLNEQFKKHLTNSEPLDLDFSIQVLSS GSWPFQQS CTFALPSELERSYQRFTAFYASRHSGRKL TWLYQLSKGELVT NCFKNRYT LQASTFQMAILLQYNTEDAYTVQQLTDSTQIKMDILAQVLQI LLKSKLLV LEDENANVDEVELKPD TLIKLYLGYKNKKLRVNINVPMKTEQ KQE QETTH

KNIEEDRKLLIQAAIVRIMKMRKVLKHQQLLGEVLTQLSSRF
KPRVPVIK KCIDILIEKEYLERVDGEKDTYSYLA

预测分子量	116 kDa including tags
氨基酸	1 to 776
标签	GST tag N-Terminus

技术指标

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.

应用	Western blot SDS-PAGE ELISA
形式	Liquid
补充说明	This product was previously labelled as Cullin 1.

制备和贮存

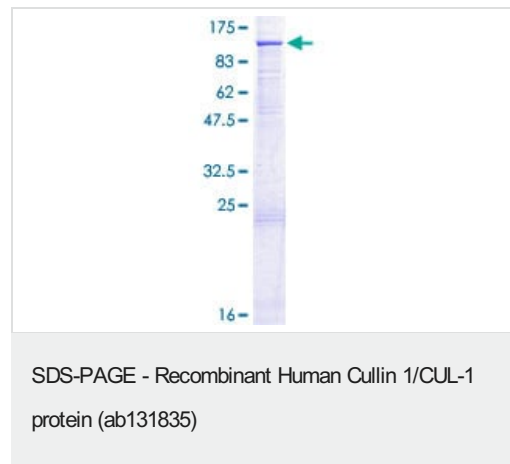
稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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常规信息

功能	<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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组织特异性	Expressed in lung fibroblasts.
通路	Protein modification; protein ubiquitination.
序列相似性	Belongs to the cullin family.
翻译后修饰	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.

图片



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

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