

Product Name: CUL1 / RBX1, Neddylated

Alternate Names: Cullin-1; CUL-1

Product Code: TE3-029

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Neddylated CUL1 / RBX1 combined with SKP1 / FBXO22 will ubiquitylate FKBP12 in an SP3CHO-dependent manner using suitable conditions.

Physical Characteristics

Species: Human

Predicted MW (kDa): CUL1: 90 kDa
RBX1: 12 kDa
NEDD8: 8.6 kDa

Source: High Five (*T. ni*)

Purity: 85 %

Tags: CUL1: Untagged
RBX1: Untagged
NEDD8: Untagged

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 2 mM TCEP, pH 7.6

Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

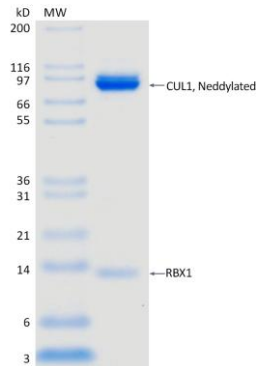
Quality Assurance

Purity & SDS-PAGE

Protein ID: Cullin-1

E3 ubiquitin-protein ligase RBX1

Ubiquitin-like protein NEDD8



2 µg CUL1 / RBX1, run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Active in Ubiquitylation Assay.

Background

Description

Recombinant human CUL1 is co-purified as a stable heterodimer with RBX1, then neddylated. When combined with a SKP1 / FBX complex, E1, E2 and ubiquitin, this fusion is capable of ubiquitylating substrates *in vitro*.

Accession Number: Q13616

Entrez Gene ID: CUL1

Accession Number: P62877

Entrez Gene ID: RBX1

Accession Number: Q15843

Entrez Gene ID: NEDD8

Protein Sequence

CUL1:

MSSTRSQNP HGLKQIGLDQIWDDL RAGIQQVYTRQSMASRYMELYTHVYNYCTSVHQSNQAR
GAGVPPSKSKKGQTPGGAQFVGLELYKRLKEFLKNYLTNLLKDGEDLMDESVLKFYTQQWEDY
RFSSKVLNGICAYLNRHWVRRECDEGRKGIYEIYSLALVTWRDCLFRPLNKQVTNAVLKLIK
ERNGETINTRLISGVVQSYVELGLNEDDAFAKGPTLTVYKESFESQFLADTERFYTRETEFL
QQNPVTEYMKKAEARLLEEQR RVQVYLHESTQDELARKCEQV LIEKHLEIFHTEFQNLDDADK
NEDLGRMYNLVSRIQDGLGELKKLLETHIHNQGLAAIEKCGEALNDPKMYVQTVLDVHKKYN
ALVMSAFNNDAGFVAALDKACGRFINNNAVTKMAQSSSKSPELLARYCDSLLKKSSKNPEEAE
LEDTLNQVMVVF KYIEDKDV FQKFYAKMLAKRLVHQNSASDDAEASMI SKLKQACGFEYTSKL
QRMFQDIGVSKDLNEQFKKHLTNSEPLDLDFS IQVLSSGSWPFQQSCTFALPSELE RSYQRFT
AFYASRHSGRKL TWLYQLSKGELVTNCFKNRYTLQASTFQMAILLQYNTEDAYTVQQLT DSTQ
IKMDILAQVLQ ILLKSKLLVLEDENANVDEVELKPD TLIKLYLGYKNKKLRVNIN VPMKTEQK
QE QETTHKNIEEDRKLLIQAAIVRIMKMRKVLKHQQLLGEVLTQLSSRFKPRVPVIKKCIDIL
IEKEYLERVDGEKDTYSYLA

RBX1:

GSDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDL CIECQANQASATSE
ECTVAWGVCNHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

NEDD8:

MLIKVKTLTGKEIEIDIEPTDKVERIKERVEEKEGIPPQQQRLIYSGKQMNDEKTAADYKILG
GSVLHLVLALRGG