

UBE2R1 recombinant protein

Recombinant UBE2R1 protein

CATALOG #
AAA60395

HOST
E coli

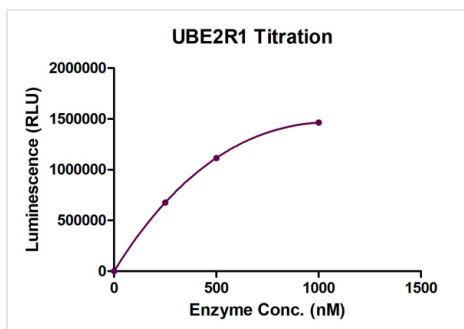
PRODUCT SYNONYMS

UBE2R1; Recombinant UBE2R1 protein; Ubiquitin conjugating enzyme E2 R1; E2-CDC34; UBC3; UBCH3; CDC34; Cell division cycle 34 homolog; UBE2R1 recombinant protein

PRODUCT SPECIFICATIONS

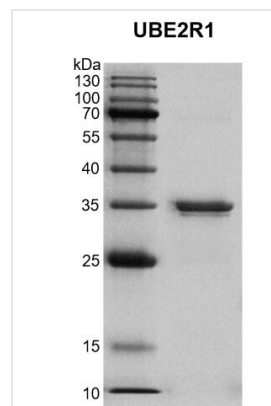
Host	E coli
Purity/Purification	>=95% by SDS-PAGE.
Form/Format	Recombinant UBE2R1 protein is supplied in 25 mM Tris 8.0, 300mM NaCl, 20% glycerol, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant UBE2R1 protein that includes full length of human UBE2R1 protein (accession number NP_004350.1) was expressed in E coli and contains an N-terminal His tag with a molecular weight of 28.9kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Application Data

AMP-Glo assay for UBE2R1 activity 7.9uM ubiquitin, 63 nM UBA1 and 25uM ATP were incubated with different concentrations of UBE2R1 in 10ul reaction system containing 40 mM Tris-HCl pH 7.4, 20 mM MgCl₂, 0.5 mM DTT, 0.1 mg/ml BSA at 37° for 1 hour. 10ul of AMP-Glo Reagent I was added to the reaction and incubated for 1 hour at room temperature. Then 20ul of AMP-Glo Detection Solution was added and luminescence was read after another 30 min incubation.



SDS-PAGE

Recombinant UBE2R1 protein gel. UBE2D3 protein was run on a 12.5% SDS-PAGE gel and stained with Coomassie Blue. MW: 28.9kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for UBE2R1 recombinant protein	UBE2R1 (Ubiquitin-conjugating enzyme E2 R1) also known as E2-CDC34, UBC3, UBCH3 and CDC34 UBE2R1 is a member of the E2 ubiquitin-conjugating enzyme family which is required for post-replicative DNA damage repair and plays an important role in various cellular processes. UBE2R1 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.
Product Categories/Family for UBE2R1 recombinant protein	DNA Damage; Ubiquitination; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight	28.9kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ube2r1-recombinant-protein-e-coli/60395>