

UBE2K recombinant protein

Recombinant UBE2K protein

CATALOG #
AAA60391

HOST
E coli

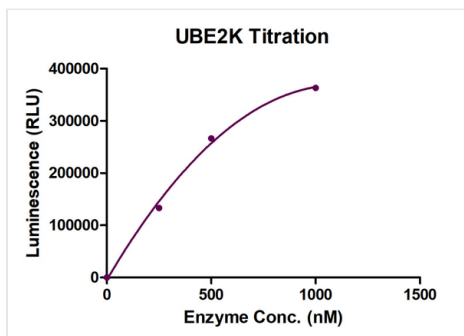
PRODUCT SYNONYMS

UBE2K; Recombinant UBE2K protein; Ubiquitin conjugating enzyme E2 K; E2-25K; HIP2; HYPG; LIG; UBC1; UBE2K recombinant protein

PRODUCT SPECIFICATIONS

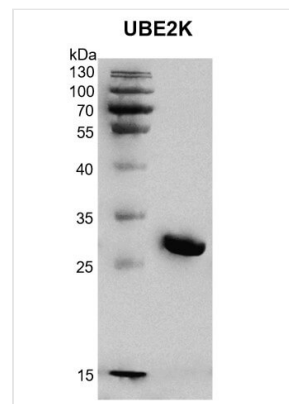
Host	E coli
Purity/Purification	>=95% by SDS-PAGE.
Form/Format	Recombinant UBE2K protein is supplied in 25 mM Tris 8.0, 300mM NaCl, 20% glycerol, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant UBE2K protein that includes full length of human UBE2K protein (accession number NP_005330.1) was expressed in E coli and contains an N-terminal His tag with a molecular weight of 24.57kDa.
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 UBE2K activity 7.9uM ubiquitin, 63 nM UBA1 and 25uM ATP were incubated with different concentrations of UBE2K 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 degree C 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 were read after another 30 min incubation.



SDS-PAGE

Recombinant UBE2K protein gel. 12.5% SDS-PAGE Coomassie blue MW: 24.57kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for UBE2K recombinant protein	UBE2K (Ubiquitin-conjugating enzyme E2 K) also known as E2-25K, HIP2, HYPG, LIG and UBC1. UBE2K 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. UBE2K can accept ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded luminal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequence degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. In case of infection by cytomegaloviruses may be involved in the US11-dependent degradation of MHC class I heavy chains following their export from the ER to the cytosol. In case of viral infections may be involved in the HPV E7 protein-dependent degradation of RB1.
Product Categories/Family for UBE2K recombinant protein	DNA Methyltransferase (DNMT); Ubiquitination; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight	24.57kDa
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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://stage.aaabiotech.com/ube2k-recombinant-protein-e-coli/60391>