

Recombinant Human UBE2N Protein (A2-I152), Tag Free

Cat. No. UBE2N-1263H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human (GG)-UBE2N(A2-I152 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	A2-I152
Description	The UBE2V1-UBE2N and UBE2V2-UBE2N heterodimers catalyze the synthesis of non-canonical 'Lys-63'-linked polyubiquitin chains. This type of polyubiquitination does not lead to protein degradation by the proteasome. Mediates transcriptional activation of target genes. Plays a role in the control of progress through the cell cycle and differentiation. Plays a role in the error-free DNA repair pathway and contributes to the survival of cells after DNA damage. Acts together with the E3 ligases, HLTF and SHPRH, in the 'Lys-63'-linked poly-ubiquitination of PCNA upon genotoxic stress, which is required for DNA repair. Appears to act together with E3 ligase RNF5 in the 'Lys-63'-linked polyubiquitination of JKAMP thereby regulating JKAMP function by decreasing its association with components of the proteasome and ERAD. Promotes TRIM5 capsid-specific restriction activity and the UBE2V1-UBE2N heterodimer acts in concert with TRIM5 to generate 'Lys-63'-linked polyubiquitin chains which activate the MAP3K7/TAK1 complex which in turn results in the induction and expression of NF-kappa-B and MAPK-responsive inflammatory genes. Together with RNF135 and UB2V1, catalyzes the viral RNA-dependent 'Lys-63'-linked polyubiquitination of RIG-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

I/DDX58 to activate the downstream signaling pathway that leads to interferon beta production. UBE2V1-UBE2N together with TRAF3IP2 E3 ubiquitin ligase mediate 'Lys-63'-linked polyubiquitination of TRAF6, a component of IL17A-mediated signaling pathway.

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	95%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 1 mM DTT, 5% glycerol.
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	UBE2N ubiquitin-conjugating enzyme E2N [Homo sapiens (human)]
Official Symbol	UBE2N
Synonyms	UBE2N; ubiquitin-conjugating enzyme E2N; ubiquitin conjugating enzyme E2N (homologous to yeast UBC13), ubiquitin conjugating enzyme E2N (UBC13 homolog, yeast); ubiquitin-conjugating enzyme E2 N; MGC8489; UBC13; Ubch ben; yeast UBC13 homolog; ubiquitin-protein ligase N; ubiquitin carrier protein N; bendless-like

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ubiquitin conjugating enzyme; bendless-like ubiquitin-conjugating enzyme; ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast); ubiquitin-conjugating enzyme E2N (homologous to yeast UBC13); Ubch-ben; MGC131857;

Gene ID 7334

mRNA Refseq NM_003348

Protein Refseq NP_003339

MIM 603679

UniProt ID P61088

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