

Recombinant Human UBE2W Protein (A2-C151), Tag Free

Cat. No. UBE2W-0046H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human (GG)-UBE2W(A2-C151 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	A2-C151
Description	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. Specifically monoubiquitinates the N-terminus of various substrates, including ATXN3, MAPT/TAU, POLR2H/RPB8 and STUB1/CHIP, by recognizing backbone atoms of disordered N-termini. Involved in degradation of misfolded chaperone substrates by mediating monoubiquitination of STUB1/CHIP, leading to recruitment of ATXN3 to monoubiquitinated STUB1/CHIP, and restriction of the length of ubiquitin chain attached to STUB1/CHIP substrates by ATXN3. After UV irradiation, but not after mitomycin-C (MMC) treatment, acts as a specific E2 ubiquitin-conjugating enzyme for the Fanconi anemia complex by associating with E3 ubiquitin-protein ligase FANCL and catalyzing monoubiquitination of FANCD2, a key step in the DNA damage pathway. In vitro catalyzes 'Lys-11'-linked polyubiquitination. UBE2W-catalyzed ubiquitination occurs also in the presence of inactive RING/U-box type E3s, i.e. lacking the active site cysteine residues to form thioester bonds with ubiquitin, or even in the absence of E3, albeit at a slower rate.

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Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
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, 5% glycerol, 1 mM DTT.
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	UBE2W ubiquitin-conjugating enzyme E2W (putative) [Homo sapiens (human)]
Official Symbol	UBE2W
Synonyms	UBE2W; ubiquitin-conjugating enzyme E2W (putative); ubiquitin-conjugating enzyme E2 W; FLJ11011; ubiquitin-protein ligase W; ubiquitin carrier protein W; ubiquitin-conjugating enzyme 16; probable ubiquitin-conjugating enzyme E2 W; UBC16; UBC-16; hUBC-16;
Gene ID	55284
mRNA Refseq	NM_001001481

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Protein Refseq	NP_001001481
MIM	614277
UniProt ID	Q96B02

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