

Recombinant Protein Technical Manual Recombinant Human UBE2W Protein (His Tag) RPES2012

Product Data:

Product SKU: RPES2012

Species: Human

Size: 50µg

Expression host: E. coli

Uniprot: Q96B022

Proteil	n Intor	mation

Molecular Mass:	19.2 kDa
AP Molecular Mass:	18 kDa
Tag:	N-His
Bio-activity:	
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin:	Please contact us for more information.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile 20mM Tris, 100mM Arg.0.1% Brij35, pH 8.5
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	UBC6;UBC16

Immunogen Information:

Sequence: Met 1-Cys 151

Background:

Ubiquitin-conjugating enzymes, also known as UBE2W, E2 enzymes and more rarely as ubiquitin-carrier enzymes, perform the second step of protein ubiquitination. The modification of protein with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. UBE2W is a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for post-replicative DNA damage repair. It accepts ubiquitination and "Lys1"-linked polyubiquitination. UBE2W is also considered to regulate FANCD2 monoubiquitination. UBE2W exhibits ubiquitin conjugating enzyme activity and catalyzes the monoubiquitination of PHD domain of Fanconi anemia complementation group L (FANCL). Over-expression of UBE2W in cells promotes the monoubiquitination of FANCD2 and down-regulated UBE2W markedly reduces the UV irradiation-induced but not MMC-induced FANCD2 monoubiquitination.