UBE2D2

Cat. # UB207H

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Background UBE2D2 is an E2 (ubiquitin conjugating enzyme) that is involved in the conjugation of ubiquitin to target substrates along with E1 and E3 enzymes. For the initial mono ubiquitination of substrates, UBE2D2 is involved as donor and UBE2C and UBE2S are involved in subsequent K-11 linked chain extension. UBE2D enzymes have been implicated in number of key pathways, such as inflammatory and cancer pathways, including the ubiquitylation of p53 (involving the E3 ligase Hdm2) and IκBα (involving the E3 ligase SCF). In addition, UBE2D enzymes function in transcriptional control as donors for ubiquitination of histone tail by the Polycomb protein Ring1B and DNA methylation regulator UHRF1.

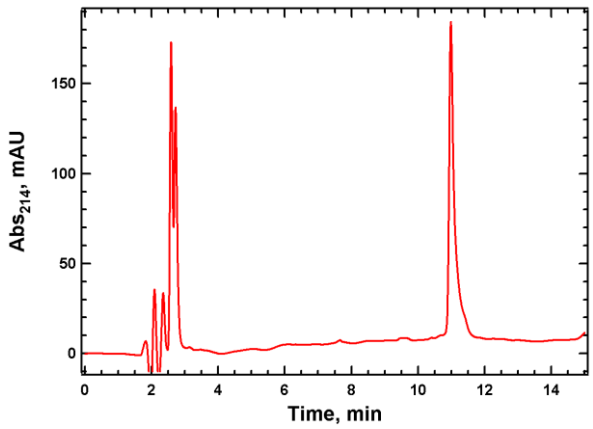
Alternate Names UbcH5b, E2-17K2

Application(s) Ubiquitin ligation reactions

Product Specifications

Tag	His_6
Purity	> 95% by RP-HPLC
Molecular Weight	17,729.6 Da by MS (calculated 17,729.3)
Quantity	20 µL or 75 µL of a 40 µM solution (0.8 and 3 nmoles, respectively)
Species	Human, recombinant; Accession No. P62837
Expression System	*E. Coli*
Physical State	Liquid
Buffer	50 mM Tris, pH 7.5; 150 mM NaCl; 10 mM DTT; 10% glycerol
Solubility	> 3 mg/mL
Stability & Storage	Over 1 year at -80° C. Avoid repeated freeze/thaw cycles

Product QC



RP-HPLC

References

1. Roman-Trufero M., et al., Front Cell Dev Biol, 2022;10:1058751.
2. DaRosa, P. A., et al., Mol. Cell, 2018; 72, 753–7.
3. Yang, J., et al., Cancer Res, 2021; 81, 898–909.