

UBE2R1/CDC34 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P79448
Synonyms:	Ubiquitin-conjugating enzyme E2 R1; CDC34; (E3-independent) E2 ubiquitin-conjugating enzyme R1 (EC:2.3.2.24); E2 ubiquitin-conjugating enzyme R1; Ubiquitin-conjugating enzyme E2-32 kDa complementing; Ubiquitin-conjugating enzyme E2-CDC34; Ubiquitin-protei
Species:	Human
Source:	Sf9 insect cells
Accession:	P49427 (A2-S236)
Gene ID:	997
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>UBE2R1, a pivotal component in the ubiquitin-proteasome system, functions as an E2 ubiquitin-conjugating enzyme, adept at accepting ubiquitin from the E1 complex and catalyzing its covalent attachment to various protein substrates. In vitro, UBE2R1 demonstrates its catalytic prowess by efficiently mediating 'Lys-48'-linked polyubiquitination reactions. Collaborating with specific E3 ligase complexes, such as SCF(FBXW11) and SCF(SKP2), UBE2R1 plays a crucial role in orchestrating the ubiquitin-dependent degradation of key regulatory proteins. Notably, it participates in the polyubiquitination of NFKBIA, leading to its subsequent proteasomal degradation, thereby influencing processes related to cellular proliferation. UBE2R1's involvement extends to the regulation of cell cycle progression, targeting proteins like WEE1 kinase and beta-catenin for ubiquitination and degradation. Moreover, it becomes a target itself for the human herpes virus 1 protein ICP0, establishing dynamic interactions with proteasomes and contributing to the intricate landscape of cellular protein homeostasis.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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