

UBE2V1 Protein, Human (His)

Cat. No.:	HY-P71410
Synonyms:	Ubiquitin-Conjugating Enzyme E2 Variant 1; UEV-1; CROC-1; TRAF6-Regulated IKK Activator 1 Beta Uev1A; UBE2V1; CROC1; UBE2V; UEV1; P/OKcl.19
Species:	Human
Source:	E. coli
Accession:	Q13404 (A2-N147)
Gene ID:	7335
Molecular Weight:	Approximately 17.0 kDa

PROPERTIES

AA Sequence	<pre> A A T T G S G V K V P R N F R L L E E L E E G Q K G V G D G T V S W G L E D D E D M T L T R W T G M I I G P P R T I Y E N R I Y S L K I E C G P K Y P E A P P F V R F V T K I N M N G V N S S N G V V D P R A I S V L A K W Q N S Y S I K V V L Q E L R R L M M S K E N M K L P Q P P E G Q C Y S N </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM HEPES, 100 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
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>The UBE2V1 protein, on its own, lacks ubiquitin ligase activity. However, when forming a heterodimer with UBE2N, it catalyzes the synthesis of non-canonical poly-ubiquitin chains linked through Lys-63. This type of poly-ubiquitination activates IKK and does not involve protein degradation by the proteasome. UBE2V1 plays a crucial role in the activation of NF-kappa-B mediated by IL1B, TNF, TRAF6, and TRAF2, contributing to the transcriptional activation of target genes. Additionally, it participates in cell cycle progression, differentiation, and the error-free DNA repair pathway, enhancing cell survival after DNA damage. Furthermore, UBE2V1 promotes TRIM5 capsid-specific restriction activity, collaborating with UBE2N to generate 'Lys-63'-linked polyubiquitin chains that activate the MAP3K7/TAK1 complex, leading to the induction of</p>
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NF-kappa-B and MAPK-responsive inflammatory genes. Together with RNF135 and UBE2N, UBE2V1 catalyzes viral RNA-dependent 'Lys-63'-linked polyubiquitination of RIGI, activating the downstream signaling pathway for interferon beta production. In association with TRAF3IP2 E3 ubiquitin ligase, UBE2V1-UBE2N mediates 'Lys-63'-linked polyubiquitination of TRAF6 in the IL17A-mediated signaling pathway. It forms a heterodimer with UBE2N and interacts with various proteins, including STUB1 and TRAF6, contributing to diverse cellular processes and signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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