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Datasheet for ABIN1692353

UBE2V1 Protein (AA 2-147) (His tag)

Overview

Quantity:	50 µg
Target:	UBE2V1
Protein Characteristics:	AA 2-147
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBE2V1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Ubiquitin-Conjugating Enzyme E2 Variant 1/UBE2V1 (C-6His)
Sequence:	AATTGSGVKV PRNFRLLLEEL EEGQKGVGDG TVSWGLEDDE DMTLTRWTGM IIGPPRTIYE NRIYSLKIEC GPKYPEAPPF VRFVTKINMN GVNSSNGVVD PRAISVLAKW QNSYSIKVVL QELRRLMMSK ENMKLPQPPE GQCYSNLEHH HHHH
Characteristics:	Recombinant Human Ubiquitin-Conjugating Enzyme E2 Variant 1/UBE2V1 is produced with our E. coli expression system. The target protein is expressed with sequence (Ala2-Asn147) of Human UBE2V1 fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	UBE2V1
Alternative Name:	UBE2V1 (UBE2V1 Products)
Sub Type:	Fusionprotein
Background:	<p>Ubiquitin-Conjugating Enzyme Variant 1a (UBE2V1) is a member of the Ubiquitin-conjugating (E2) enzyme family. The E2 catalytic core domain of UBE2V1 lacks an active site cysteine residue, rendering it catalytically inactive on its own. However, in the cytoplasm UBE2V1 is able to form a catalytically active complex with UBE2N/Ubc13, which mediates the synthesis Lys63-linked Ubiquitin chains and is required for NF-kappa B activation. UBE2V1 is required for UBE2N (Ubc13)/UBE2V1 Complex-dependent Lys63-linked Ubiquitin chain formation. More specifically, UBE2V1 orients the Ubiquitin molecule to favor linkage at Lys63 via a non-covalent interaction with the Ubiquitin molecule. The UBE2V1-UBE2N heterodimer catalyzes the synthesis of non-canonical poly-ubiquitin chains that are linked through Lys63. This type of poly-ubiquitination activates IKK and does not seem to involve protein degradation by the proteasome. UBE2V1 plays a role in the activation of NF-kappa-B mediated by IL1B, TNF, TRAF6, and TRAF2. It mediates transcriptional activation of target genes. UBE2V1 also controls the progress through the cell cycle and differentiation, the error-free DNA repair pathway and contributes to the survival of cells after DNA damage.</p> <p>Alternative Names: Ubiquitin-Conjugating Enzyme E2 Variant 1, UEV-1, CROC-1, TRAF6-Regulated IKK Activator 1 Beta Uev1A, UBE2V1, CROC1, UBE2V, UEV1, P/OKcl.19</p>
Molecular Weight:	17.5 kDa
UniProt:	Q13404
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>

Handling

Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM HEPES, 100 mM NaCl, pH 8.0.
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Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
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Storage:	-80 °C
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Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
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Expiry Date:	6 months
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