Datasheet for ABIN1097730

UBE2G2 Protein (AA 1-165) (GST tag)

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Overview

Quantity:	50 µg
Target:	UBE2G2
Protein Characteristics:	AA 1-165
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBE2G2 protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human Ubiquitin-Conjugating Enzyme E2 G2/UBE2G2/UBC7 (N-GST)
Sequence:	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSHMAG TALKRLMAEY KQLTLNPPEG IVAGPMNEEN FFEWEALIMG PEDTCFEFGV FPAILSFPLD YPLSPPKMRF TCEMFHPNIY PDGRVCISIL HAPGDDPMGY ESSAERWSPV QSVEKILLSV VSMLAEPNDE SGANVDASKM WRDDREQFYK IAKQIVQKSL GL
Characteristics:	Recombinant Human Ubiquitin-Conjugating Enzyme E2 G2/UBE2G2/UBC7 (N-GST)
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:	UBE2G2
Alternative Name:	Ubiquitin-Conjugating Enzyme E2 G2/UBE2G2 (UBE2G2 Products)
Background:	Recombinant Human Ubiquitin-Conjugating Enzyme E2 G2/UBE2G2 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Leu165) of Human UBE2G2 fused with a GST tag at the N-terminus. Ubiquitin-Conjugating Enzyme E2 G2 (UBE2G2) is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation, which belong to the ubiquitin-conjugating enzyme family. It shares 60 % and 100 % sequence identity with S.cerevisiae Ubc7 and mouse respectively. The UBE2G2 enzyme and the GP78 E3 ligase are active components of endoplasmic reticulum-associated degradation pathway which is essential for the degradation of misfolded ER proteins. The mechanism of K48-linked poly-ubiquitination by UBE2G2/GP78 appears to involve the transfer of preassembled Ub chains from UBE2G2 to lysine residues in a substrate. The E2 and E3 enzymes form a large hetero-oligomer which brings multiple UBE2G2 molecules into close proximity which allows for Ub transfer between neighboring E2s.
Molecular Weight:	45 kDa
UniProt:	P60604

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM HEPES, 150 mM NaCl, 2 mM DTT, 10 % Glycerol, pH 7.5.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months