

Recombinant Human UBE2G2, His-tagged

Cat. No. UBE2G2-99H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human UBE2G2, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	UBE2G2 also known as Ubiquitin-conjugating enzyme E2 G2 isoform 1. The modification of UBE2G2 with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. UBE2G2 is ubiquitously expressed, with high expression seen in adult muscle.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	21kDa (188aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGTALK RLMAEYKQLT LNPPEGIVAG PMNEENFFEW EALIMGPEdT CFEFGVFPAl LSFPLDYPLS PPKMRFTCEM FHPNIYPDGR VCISILHAPG DDPMGYESSA ERWSPVQSVE KILLSVVSML AEPNDESGAN VDASKMWRDD REQFYKIAKQ IVQKSLGL
Purity	>95% by SDS - PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	UBE2G2 ubiquitin-conjugating enzyme E2G 2 [Homo sapiens]
Official Symbol	UBE2G2
Synonyms	UBE2G2; ubiquitin-conjugating enzyme E2G 2; ubiquitin conjugating enzyme E2G 2 (homologous to yeast UBC7) , ubiquitin conjugating enzyme E2G 2 (UBC7 homolog, yeast); ubiquitin-conjugating enzyme E2 G2; UBC7; ubiquitin-protein ligase G2; ubiquitin carrier protein G2; ubiquitin conjugating enzyme 7; ubiquitin conjugating enzyme G2; ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast); ubiquitin-conjugating enzyme E2G 2 (homologous to yeast UBC7);
Gene ID	7327
mRNA Refseq	NM_001202489
Protein Refseq	NP_001189418
MIM	603124
UniProt ID	P60604
Chromosome Location	21q22.3

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Pathway

Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem; Parkinsons disease, organism-specific biosystem;

Function

ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; protein binding; ubiquitin-protein ligase activity;

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