

## Recombinant Human UBE2I, His-tagged

Cat. No. UBE2I-223H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Recombinant full length human UBE2I was expressed in E. coli cells using an N-terminal His tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>UBE2I or ubiquitin-conjugating enzyme E2I is a member of the E2 ubiquitin-conjugating enzyme family which is required for post-replicative DNA damage repair. UBE2I also known as UBC9, plays a role DNA damage repair via interaction with WT1, which is able to impose a block in cell cycle progression in eukaryotic cells. Listeria and probably other pathogens, dampens the host response by decreasing the sumoylation level of proteins critical for infection by targeting UBC21, an essential enzyme of the SUMO pathway. UBC21 and the SUMO pathway are crucial for proper nuclear architecture, accurate chromosome segregation, and embryonic viability.</p> |
| <b>Form</b>             | Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | ~19 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >95% by densitometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>     | Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| <b>Storage</b>          | Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>    | 0.1 µg/µl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>        | UBE2I ubiquitin-conjugating enzyme E2I [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>  | UBE2I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>         | UBE2I; ubiquitin-conjugating enzyme E2I; ubiquitin conjugating enzyme E2I (homologous to yeast UBC9) , ubiquitin conjugating enzyme E2I (UBC9 homolog, yeast); SUMO-conjugating enzyme UBC9; UBC9; SUMO-protein ligase; SUMO-1-protein ligase; ubiquitin-protein ligase I; ubiquitin carrier protein 9; ubiquitin carrier protein I; ubiquitin-protein ligase E2I; ubiquitin conjugating enzyme 9; ubiquitin-conjugating enzyme UbcE2A; ubiquitin-like protein SUMO-1 conjugating enzyme; ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast); ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9); P18; C358B7.1; |
| <b>Gene ID</b>          | 7329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>      | NM_003345                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>   | NP_003336                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>              | 601661                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt ID          | P63279                                                                                                                                                                                                                                                                                                                                                                                         |
| Chromosome Location | 16p13.3                                                                                                                                                                                                                                                                                                                                                                                        |
| Pathway             | Androgen Receptor Signaling Pathway, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; |
| Function            | ATP binding; HLH domain binding; contributes_to SUMO ligase activity; acid-amino acid ligase activity; bHLH transcription factor binding; enzyme binding; ligase activity; nucleotide binding; protein C-terminus binding; protein binding; transcription factor binding; ubiquitin-protein ligase activity;                                                                                   |

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