

## UBE2O recombinant protein

UBE2O, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA74093</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

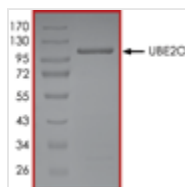
### PRODUCT SYNONYMS

UBE2O; Active; E2-230K; FLJ12878; KIAA1734; UBE2O recombinant protein

### PRODUCT SPECIFICATIONS

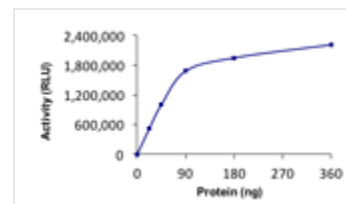
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|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                           | Recombinant proteins stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                           |
| Applicable Applications for UBE2O recombinant protein | WB (Western Blot)                                                                                                                                                                                                                              |
| Tag                                                   | GST                                                                                                                                                                                                                                            |
| Species                                               | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                          | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                               | Store product at -70 degree C. 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. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

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|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for UBE2O recombinant protein | <p>Recombinant full-length human UBE2O was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The UBE2O gene accession number is BC022237.</p> <p>UBE2O or ubiquitin-conjugating enzyme E2O is a part of the ubiquitin-mediated protein degradation pathway in which a thiol-ester linkage forms between a conserved cysteine and the C-terminus of ubiquitin and complexes with ubiquitin. HIV-1 Tat has been identified to have a physical interaction with ubiquitin-conjugating enzyme E2O (UBE2O) in human HEK293 and Jurkat cell lines by using affinity tagging and purification mass spectrometry analyses.</p> |
| Product Categories/Family for UBE2O recombinant protein   | Ubiquitin Enzymes; Cancer; Cell Cycle; Neurobiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | 1. Mondal, S. et al: A bioluminescent assay for monitoring conjugation of ubiquitin and ubiquitin-like proteins. Anal. Biochem. 510: 41-51, 2016<br>2. Zhang, X. et al: Fine-tuning BMP7 signalling in adipogenesis by UBE2O/E2-230K-mediated monoubiquitination of SMAD6. EMBO J. 32(7):996-1007, 2013<br>3. Mashtalir, N. et al: Autodeubiquitination protects the tumor suppressor BAP1 from cytoplasmic sequestration mediated by the atypical ubiquitin ligase UBE2O. Mol. Cell. 54(3):392-406, 2014 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 18490593                                                                                                                                                                     |
| NCBI GeneID                      | 63893                                                                                                                                                                        |
| UniProt Accession #              | Q9C0C9; Q69YP4; Q6PIZ2; Q86UA4; Q8N425; Q8TBN1; Q9BSW1; Q9H6E6; Q9H7E4; Q9H9B2; A6NDU5                                                                                       |
| Molecular Weight                 | ~90 kDa                                                                                                                                                                      |
| NCBI Official Full Name          | Homo sapiens ubiquitin-conjugating enzyme E2O, mRNA                                                                                                                          |
| NCBI Official Synonym Full Names | ubiquitin-conjugating enzyme E2O                                                                                                                                             |
| NCBI Official Symbol             | UBE2O                                                                                                                                                                        |
| NCBI Official Synonym Symbols    | E2-230K                                                                                                                                                                      |
| NCBI Protein Information         | ubiquitin-conjugating enzyme E2 O; ubiquitin-protein ligase O; ubiquitin carrier protein O; ubiquitin-conjugating enzyme E2-230K; ubiquitin-conjugating enzyme E2 of 230 kDa |
| UniProt Protein Name             | E2/E3 hybrid ubiquitin-protein ligase UBE2O                                                                                                                                  |
| UniProt Gene Name                | UBE2O                                                                                                                                                                        |
| UniProt Synonym Gene Names       | KIAA1734; Ubiquitin-conjugating enzyme E2-230K                                                                                                                               |
| UniProt Entry Name               | UBE2O_HUMAN                                                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.