

## Recombinant Human Mdm2 P53 Binding Protein Homolog (Mouse), GST-tagged

Cat. No. MDM2-4858H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant human MDM2 (202-end) was expressed in E. coli cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ProteinLength    | 202-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description      | MDM2 is a nuclear phosphoprotein that binds and inhibits transactivation by p53, as part of an autoregulatory negative feedback loop. Overexpression of the MDM2 gene product can lead to excessive inactivation of p53 thereby diminishing its tumor suppressor function. The inactivation of p53 is mediated by the E3 ubiquitin ligase activity of MDM2 which targets p53 for proteasomal degradation. MDM2 also affects the cell cycle, apoptosis, and tumorigenesis through interactions with other proteins, including retinoblastoma 1 and ribosomal protein L5. Amplification of MDM2 is frequently observed in human sarcomas and this is consistent with the hypothesis that MDM2 binds to p53 which then leads to escape from p53-regulated growth control. |
| Applications     | Kinase Assay; Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Molecular Weight | 84 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                          |                                                                                                                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Expression System</b> | E. coli                                                                                                                                                                                                                                 |
| <b>Form</b>              | Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.                                                                                                                              |
| <b>Purity</b>            | > 75%                                                                                                                                                                                                                                   |
| <b>Concentration</b>     | 0.2 ug/ul                                                                                                                                                                                                                               |
| <b>Sequences</b>         | 202-end                                                                                                                                                                                                                                 |
| <b>Storage</b>           | Store product at -70oC. 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>Pathways</b>          | Bladder cancer; Cell cycle; Chronic myeloid leukemia; Endocytosis; Glioma; Melanoma; Pathways in cancer; Prostate cancer; Ubiquitin mediated; proteolysis; p53 signaling pathway                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MDM2 Mdm2 p53 binding protein homolog (mouse) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b> | MDM2                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | MDM2; Mdm2 p53 binding protein homolog (mouse); HDMX; hdm2; MGC5370; MGC71221; mouse double minute 2 homolog; OTTHUMP00000183495; p53-binding protein MDM2; ubiquitin-protein ligase E3 Mdm2; double minute 2, human homolog of; p53-binding protein; Mdm2, transformed 3T3 cell double minute 2, p53 binding protein; HDM2; EC 6.3.2.-; Hdm2; Double minute 2 protein |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                   |                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                    | 4193                                                                                                                                                                                    |
| <b>mRNA Refseq</b>                | NM_001145337                                                                                                                                                                            |
| <b>Protein Refseq</b>             | NP_001138809                                                                                                                                                                            |
| <b>MIM</b>                        | 164785                                                                                                                                                                                  |
| <b>UniProt ID</b>                 | Q00987                                                                                                                                                                                  |
| <b>Chromosome Location</b>        | 12q13-q14                                                                                                                                                                               |
| <b>Function</b>                   | basal transcription repressor activity; enzyme binding; identical protein binding; ligase activity; metal ion binding; p53 binding; ubiquitin-protein ligase activity; zinc ion binding |
| <b>Solution structure of Mdm2</b> |                                                                                                     |