

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

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

GENE INFORMATION

Gene Name	MDM2 Mdm2 p53 binding protein homolog (mouse) [Homo sapiens]
Official Symbol	MDM2
Synonyms	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

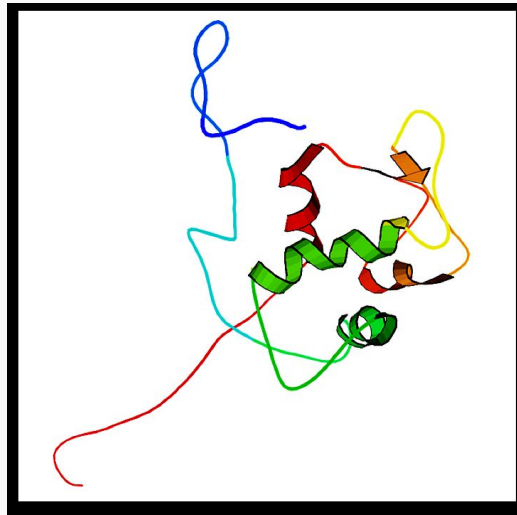
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Gene ID	4193
mRNA Refseq	NM_001145337
Protein Refseq	NP_001138809
MIM	164785
UniProt ID	Q00987
Chromosome Location	12q13-q14
Function	basal transcription repressor activity; enzyme binding; identical protein binding; ligase activity; metal ion binding; p53 binding; ubiquitin-protein ligase activity; zinc ion binding

Solution structure of Mdm2



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