

Recombinant Human MDM2, His-tagged

Cat. No. MDM2-29756TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human MDM2 with His tag; amino acids 1-491, approximately 56kDa.
Species	Human
Source	E.coli
ProteinLength	1-491 a.a.
Description	This gene is a target gene of the transcription factor tumor protein p53. The encoded protein is a nuclear phosphoprotein that binds and inhibits transactivation by tumor protein p53, as part of an autoregulatory negative feedback loop. Overexpression of this gene can result in excessive inactivation of tumor protein p53, diminishing its tumor suppressor function. This protein has E3 ubiquitin ligase activity, which targets tumor protein p53 for proteasomal degradation. This protein also affects the cell cycle, apoptosis, and tumorigenesis through interactions with other proteins, including retinoblastoma 1 and ribosomal protein L5. More than 40 different alternatively spliced transcript variants have been isolated from both tumor and normal tissues.
Conjugation	HIS
Tissue specificity	Ubiquitous. Isoform Mdm2-A, isoform Mdm2-B, isoform Mdm2-C, isoform Mdm2-D, isoform Mdm2-E, isoform Mdm2-F and isoform Mdm2-G are observed in a range of cancers but absent in normal tissues.

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Biological activity	1 unit equals 1 nanogram of purified protein.
Form	Liquid
Purity	Immunogen affinity purified
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the MDM2/MDM4 family.Contains 1 RanBP2-type zinc finger.Contains 1 RING-type zinc finger.Contains 1 SWIB domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	MDM2 Mdm2 p53 binding protein homolog (mouse) [Homo sapiens]
Official Symbol	MDM2
Synonyms	MDM2; Mdm2 p53 binding protein homolog (mouse); Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) , mouse double minute 2, human homolog of; p53 binding protein; E3 ubiquitin-protein ligase Mdm2; HDM2; HDMX; MGC5370;
Gene ID	4193
mRNA Refseq	NM_002392

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Protein Refseq	NP_002383
Uniprot ID	Q00987
Chromosome Location	12q13-q14
Pathway	AKT phosphorylates targets in the cytosol, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Aurora A signaling, organism-specific biosystem; Bladder cancer, organism-specific biosystem;
Function	enzyme binding; ligase activity; metal ion binding; p53 binding; protein binding;

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