

## Recombinant Human MDM2

**Cat. No.** MDM2-29009TH    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant full length Human MDM2 Isoform 11 with N terminal proprietary tag; MWt 82kDa.

**Species**                      Human

**Source**                        Insect Cells

**ProteinLength**              496 amino acids

**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.

**Molecular Weight**        82.000kDa inclusive of tags

**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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<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
<b>Storage</b>	Store at -80°C
<b>Sequence Similarities</b>	Belongs to the MDM2/MDM4 family. Contains 1 RanBP2-type zinc finger. Contains 1 RING-type zinc finger. Contains 1 SWIB domain.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MDM2 Mdm2 p53 binding protein homolog (mouse) [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">MDM2</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">4193</a>
<b>mRNA Refseq</b>	<a href="#">NM_002392</a>
<b>Protein Refseq</b>	<a href="#">NP_002383</a>
<b>Uniprot ID</b>	<a href="#">Q00987</a>
<b>Chromosome Location</b>	12q13-q14

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**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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