

Recombinant Human MDM4

Cat. No. MDM4-29757TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MDMX with N terminal proprietary tag; Predicted MWt 79.97 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	490 amino acids
Description	This gene encodes a nuclear protein that contains a p53 binding domain at the N-terminus and a RING finger domain at the C-terminus, and shows structural similarity to p53-binding protein MDM2. Both proteins bind the p53 tumor suppressor protein and inhibit its activity, and have been shown to be overexpressed in a variety of human cancers. However, unlike MDM2 which degrades p53, this protein inhibits p53 by binding its transcriptional activation domain. This protein also interacts with MDM2 protein via the RING finger domain, and inhibits the latter's degradation. So this protein can reverse MDM2-targeted degradation of p53, while maintaining suppression of p53 transactivation and apoptotic functions. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Molecular Weight	79.970kDa inclusive of tags
Tissue specificity	Expressed in all tissues tested with high levels in thymus.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MTSFSTSAQCSTSDSACRISPGQINQVRPKLPLLKILHAA GAQGEMFTVKEVMHYL GQYIMVKQLYDQQEQHVMVYCGGDL LGELLGRQSFSVKDPSPLYDMLRKNLVTLAT ATTDAAQTL ALAQDHSMDIPSQDQLKQSAEESSTSRKRTTEDDIPTLPT SEHKCIHS REDEDLIENLAQDETSRLDLGFEEWDVAGLPW WFLGNLRSNYTPRSNGSTDLQTN QDVGTAIVSDTTDDLWF LNESVSEQLGVGIKVEAADTEQTSEEVGKVSDDKKVIEVGK NDDLEDSKSLSDDTDVEVTSEDEWQCTECKKFNSPSKRYC FRCWALRKDWYSDC SKLTHSLSTSDITAIPEKENEGNDVP DCRRTISAPVVRPKDAYIKKENSCLFDPCNSV EFLDLAHS SESQETISSMGEQLDNLSEQRDTENMEDCQNLLKPCSLC EKRPRDG NIIHGRTGHLVTCFHCARRLKKAGASCPICKKE IQLVIKVFA
Sequence Similarities	Belongs to the MDM2/MDM4 family. Contains 1 RanBP2-type zinc finger. Contains 1 RING-type zinc finger. Contains 1 SWIB domain.

GENE INFORMATION

Gene Name	MDM4 Mdm4 p53 binding protein homolog (mouse) [Homo sapiens]
Official Symbol	MDM4
Synonyms	MDM4; Mdm4 p53 binding protein homolog (mouse); Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse) , mouse double minute 4, human homolog of; p53 binding protein; protein Mdm4; MDMX;
Gene ID	4194

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mRNA Refseq	NM_001204171
Protein Refseq	NP_001191100
MIM	602704
Uniprot ID	O15151
Chromosome Location	1q32
Pathway	p53 pathway, organism-specific biosystem; p53 signaling pathway, organism-specific biosystem; p53 signaling pathway, conserved biosystem;
Function	enzyme binding; metal ion binding; protein binding; zinc ion binding; zinc ion binding;

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