MDM4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MDM4, Polyclonal Antibody
Full Product Name	MDM4 (MDMX, Protein Mdm4, Protein Mdmx, Double Minute 4 Protein, Mdm2-like p53-binding Protein, p53-binding Protein Mdm4, MGC132766, MRP
Product Gene Name	anti-MDM4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MDM4. Species Crossreactivity: mouse and rat.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	49,541 Da
OMIM	602704
3D Structure	ModBase 3D Structure for O15151
Immunogen	Full length human MDM4, aa1-490 (NP_002384.2).
Immunogen Sequence	MTSFSTSAQCSTSDSACRISPGQINQVRPKLPLLKILHAAGAQGEMFTVKEVMHYLGQYIMVKQLYDQQEQHMVYCGGDLLGELLGRQSFSVKDPSPLY
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MDM4 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-MDM4 antibody	Western Blot (WB)
Application Notes for anti-MDM4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MDM4 antibody	The human MDM4 gene, which plays a role in apoptosis, encodes a 490aa protein containing a RING finger domain and a putative nuclear localization

Other Notes	Small volumes of anti-MDM4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for MDM4 purchase	MBS6385154 is an antibody targeting MDM4. Also known as MDM4 (MDMX, Protein Mdm4, Protein Mdmx, Double Minute 4 Protein, Mdm2-like p53-b

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MDM4. It may not necessarily be applicable to this product.

NCBI GI #	88702791
NCBI GeneID	4194
NCBI Accession #	NP_002384.2
UniProt Primary Accession #	O15151
UniProt Secondary Accession #	Q2M2Y2; Q32SL2; Q6GS18; Q8IV83
UniProt Related Accession #	O15151
GenBank Nucleotide #	NM_002393
NCBI Official Full Name	protein Mdm4 isoform 1
NCBI Official Synonym Full Names	MDM4, p53 regulator
NCBI Official Symbol	MDM4
NCBI Official Synonym Symbols	HDMX; MDMX; MRP1
UniProt Protein Name	Protein Mdm4
UniProt Synonym Protein Names	Double minute 4 protein; Mdm2-like p53-binding protein; Protein Mdmx; p53-binding protein Mdm4
Protein Family	Protein
UniProt Gene Name	MDM4
UniProt Synonym Gene Names	MDMX
UniProt Entry Name	MDM4_HUMAN
NCBI Protein Information	protein Mdm4; protein Mdmx; MDM4 protein variant G; MDM4 protein variant Y; MDM4-related protein 1; mdm2-like p53-binding protein; Mdm4 p53 binding protein homolog; double minute 4, human homolog of; p53-binding protein
NCBI Summary for MDM4	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. [provided by RefSeq, Feb 2011]

UniProt Comments for MDM4	MDM4: Inhibits p53/TP53- and TP73/p73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. Inhibits degradation of MDM2. Can reverse MDM2-targeted degradation of TP53 while maintaining suppression of TP53 transactivation and apoptotic functions. Interacts with MDM2, TP53, TP73 and USP2. Found in a trimeric complex with UPB2, MDM2 and MDM4. Interacts (phosphorylated) with YWHAG; negatively regulates MDM4 activity toward TP53. Down-regulated by cisplatin. Expressed in all tissues tested with high levels in thymus. Belongs to the MDM2/MDM4 family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system; Ubiquitin ligase; EC 6.3.2.-; Ligase Chromosomal Location of Human Ortholog: 1q32 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; enzyme binding; zinc ion binding Biological Process: cell proliferation; negative regulation of cell proliferation; protein stabilization; DNA damage response, signal transduction by p53 class mediator; G0 to G1 transition; positive regulation of cell proliferation; protein complex assembly; negative regulation of transcription from RNA polymerase II promoter; negative regulation of protein catabolic process; negative regulation of apoptosis
Research Articles on MDM4	**1.** Another important mechanism by which tumors bypass TP53 functions is via increased levels of two TP53 inhibitors, MDM2, and MDM4
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