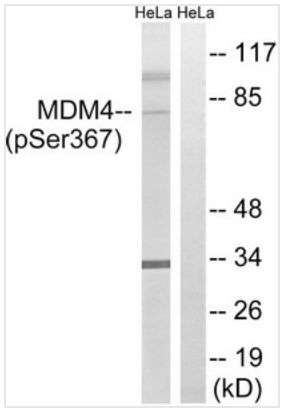
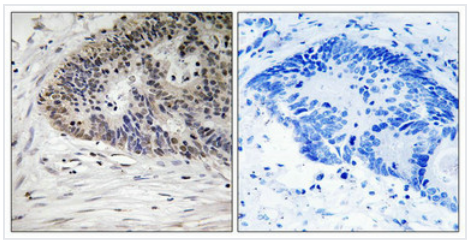
MDM4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MDM4, Polyclonal Antibody
Full Product Name	Phospho-MDM4 (Ser367) Antibody
Product Gene Name	anti-MDM4 antibody
Product Synonym Names	double minute 4 protein; Mdm2-like p53-binding protein; MDMX; p53-binding protein Mdm4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; Rabbit IgG In Phosphate Buffered Saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography usin
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	54,864 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (204485507..204527248). Location: 1q32
OMIM	602704
3D Structure	ModBase 3D Structure for O15151
Immunogen	Peptide sequence around phosphorylation site of serine 367 (T-I-S(p)-A-P) derived from Human MDM4.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-MDM4 antibody	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MDM4 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MDM4 antibody	WB: 1:500-1:3000 IHC: 1:50-1:100
Related Product Information for anti-MDM4 antibody	MBS7133446 is an antibody targeting MDM4. Also known as Phospho-MDM4 (Ser367) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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 necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MDM4 antibody
Western blot analysis of extracts from HeLa cells, treated with calyculinA (50ng/ml, 30mins), using MDM4 (Phospho-Ser367) antibody. The lane on the right is treated with the synthesized peptide.



Immunohistochemistry (IHC) of anti-MDM4 antibody
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue using MDM4 (Phospho-Ser367) antibody. The picture on the right is treated with the synthesized peptide.

ADDITIONAL DETAILS

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

NCBI GI #	323510634
NCBI GeneID	4194
NCBI Accession #	NP_001191100.1
UniProt Primary Accession #	O15151
UniProt Secondary Accession #	Q2M2Y2; Q32SL2; Q6GS18; Q8IV83
UniProt Related Accession #	O15151
GenBank Nucleotide #	NM_001204171.1
NCBI Official Full Name	protein Mdm4 isoform 2
NCBI Official Synonym Full Names	Mdm4 p53 binding protein homolog (mouse)
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-related protein 1; mdm2-like p53-binding protein; 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.** quantify the expression of MDM4 and MDM2 mRNA and protein in human fetal retinae, primary retinoblastomas, retinoblastoma cell lines and several independent orthotopic retinoblastoma xenografts
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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