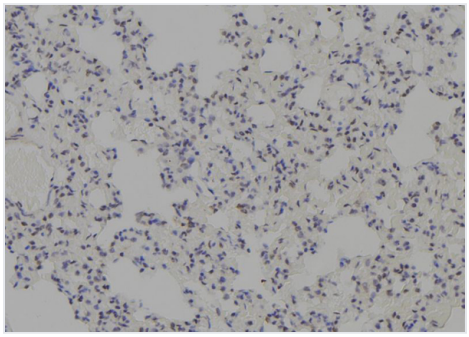
MDM4 Antibody – Rabbit Polyclonal

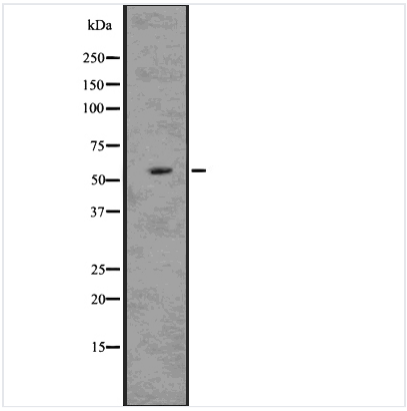
PRODUCT OVERVIEW

Product Name	MDM4, Polyclonal Antibody
Full Product Name	MDM4 Antibody
Product Gene Name	anti-MDM4 antibody
Product Synonym Names	DKFZp781B1423; Double minute 4; Double minute 4 human homolog of p53 binding protein; Double minute 4 protein; HDMX; MDM 4; Mdm2 like p53 binding protein; Mdm2-like p53-binding protein; MDM4; Mdm4 p53 binding protein homolog mouse; Mdm4 protein; MDM4 related protein 1; Mdm4 transformed 3T3 cell double minute 4; Mdm4 transformed 3T3 cell double minute 4 p53 binding protein; Mdm4 transformed 3T3 cell double minute 4 p53 binding protein mouse; MDM4_HUMAN; Mdmx protein; MGC132766; Mouse double minute 4 homolog; Mouse double minute 4 human homolog of p53 binding protein; MRP 1; MRP1; p53 binding protein; p53 BINDING PROTEIN MDM4; p53-binding protein Mdm4; Protein Mdm4; Protein Mdmx
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	MDM4 antibody detects endogenous levels of total MDM4
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MDM4 peptide (MBS9626853) is used for blocking the activity of MDM4 antibody (MBS9608141)
Molecular Weight	Observed: 55 kDa Predicted: 55 kDa
3D Structure	ModBase 3D Structure for O15151
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human MDM4
Subcellular Location	Nucleus.
Tissue Specificity	Expressed in all tissues tested with high levels in thymus.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MDM4 antibody	Western Blot (WB), Immunohistochemisty (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-MDM4 antibody	WB: 1:1000-3000 IHC: 1:200 IF/ICC: 1:100-1:500

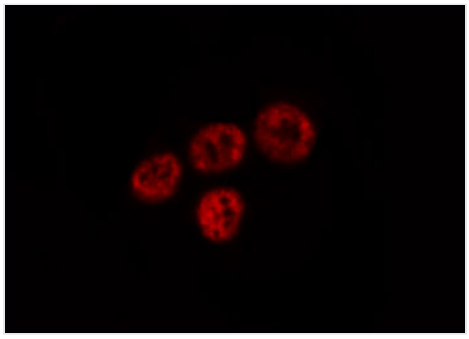
Related Product Information for anti-MDM4 antibody	Function: Inhibits p53/TP53-and TP73/p73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. Inhibits degradation of MDM2. Can reverse MDM2-targeted degradation of TP53 while maintaining suppression of TP53 transactivation and apoptotic functions. Subunit Structure: Interacts with MDM2, TP53, TP73 and USP2. Found in a trimeric complex with USP2, MDM2 and MDM4. Interacts (phosphorylated) with YWHAG; negatively regulates MDM4 activity toward TP53. Post-translational Modifications: Phosphorylated. Phosphorylation at Ser-367 promotes interaction with YWHAG and subsequent ubiquitination and degradation. Phosphorylation at Ser-342 also induces ubiquitination and degradation but to a lower extent. Ubiquitinated and degraded by MDM2. Deubiquitination by USP2 on the other hand stabilizes the MDM4 protein. Similarity: Region I is sufficient for binding TP53 and inhibiting its G1 arrest and apoptosis functions. It also binds TP73. Region II contains most of a central acidic region and a putative C4-type zinc finger. The RING finger domain which coordinates two molecules of zinc mediates the heterooligomerization with MDM2. Belongs to the MDM2/MDM4 family.
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.
Searchable Terms for MDM4 purchase	MBS9608141 is an antibody targeting MDM4. Also known as MDM4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-MDM4 antibody
MBS9608141 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-MDM4 antibody
Western blot analysis of MDM4 using HeLa whole cell lysates



Immunofluorescence (IF) of anti-MDM4 antibody
MBS9608141 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

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 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
NCBI Protein Information	protein Mdm4
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	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.
Research Articles on MDM4	**1.** Considering the lack of association between MDM4 rs4245739 polymorphism and breast cancer, rs4245739 polymorphism of this gene seems to have no significant role in the pathophysiology of the disease.
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