

Rabbit MDM4 Polyclonal Antibody | anti-MDM4 antibody

MDM4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327201	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

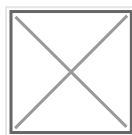
PRODUCT SYNONYMS

MDM4; Polyclonal Antibody; MDM4 Antibody; 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 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; anti-MDM4 antibody

PRODUCT SPECIFICATIONS

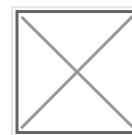
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MDM4 antibody detects endogenous levels of total MDM4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	440
Applicable Applications for anti-MDM4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
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
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA327201 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.



WB (Western Blot)

Western blot analysis of MDM4 using HeLa whole cell lysates



IHC (Immunohistochemistry)

AAA327201 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.

ADDITIONAL INFORMATION

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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	323510634
NCBI GeneID	4194
NCBI Accession #	NP_001191100.1
NCBI GenBank Nucleotide #	NM_001204171.1
UniProt Accession #	O15151; Q2M2Y2; Q32SL2; Q6GS18; Q8IV83
Molecular Weight	Observed: 55 kDa Predicted: 55 kDa
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
NCBI Protein Information	protein Mdm4
UniProt Protein Name	Protein Mdm4
UniProt Gene Name	MDM4
UniProt Synonym Gene Names	MDMX

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.