

# MDM4 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1201a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">O15151</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	2D10F4
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	54864
<b>Description</b>	MDM4, encodes a 490-amino acid protein containing a RING finger domain and a putative nuclear localization signal. The MDM4 putative nuclear localization signal, which all Mdm proteins contain, is located in the C-terminal region of the protein. The mRNA is expressed at a high level in thymus and at lower levels in all other tissues tested. MDM4 protein produced by in vitro translation interacts with p53 via a binding domain located in the N-terminal region of the MDM4 protein. MDM4 shows significant structural similarity to p53-binding protein MDM2.
<b>Immunogen</b>	Purified recombinant fragment of human MDM4 expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	4194
<b>Other Names</b>	Protein Mdm4, Double minute 4 protein, Mdm2-like p53-binding protein, Protein Mdmx, p53-binding protein Mdm4, MDM4, MDMX
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/500 - 1/2000 ICC~~N/A E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	MDM4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MDM4
<b>Synonyms</b>	MDMX
<b>Function</b>	Along with MDM2, contributes to TP53 regulation (PubMed: <a href="#">32300648</a> ). 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.
<b>Cellular Location</b>	Nucleus.
<b>Tissue Location</b>	Expressed in all tissues tested with high levels in thymus

## References

1. Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903. 2. Cell Cycle. 2004 Apr;3(4):472-8. 3. Biochem Biophys Res Commun. 2005 Jul 8;332(3):702-9.

## Images

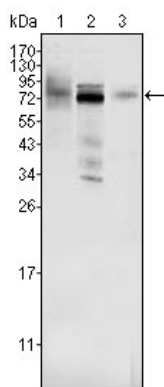


Figure 1: Western blot analysis using MDM4 mouse mAb against HeLa (1), A549 (2) and A431 (3) cell lysate.

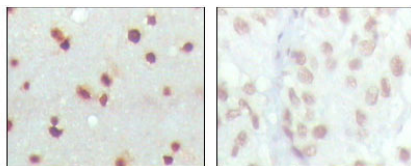


Figure 2: Immunohistochemical analysis of paraffin-embedded human cerebra (left) and lung carcinoma (right) tissues, showing nuclear localization with DAB staining using MDM4 mouse mAb.

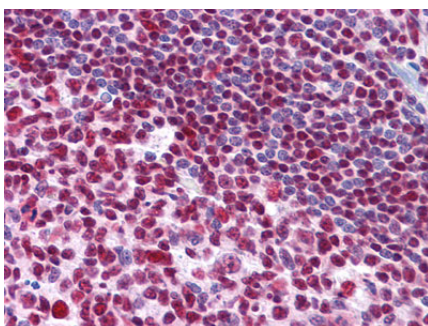
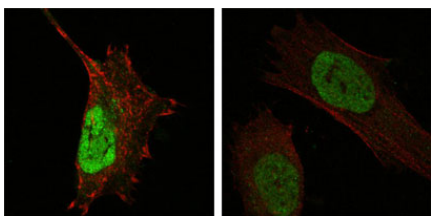


Figure 3: Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using MDM4 mouse mAb

Figure 4: Confocal immunofluorescence analysis of HeLa (left) and L-02 (right) cells using MDM4 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.