

MDM4 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1201a

Specification

MDM4 Antibody - Product Information

Application	WB, IHC, ICC, E
Primary Accession	O15151
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	55kDa KDa

Description

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.

Immunogen

Purified recombinant fragment of human MDM4 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

MDM4 Antibody - Additional Information

Gene ID 4194

Other Names

Protein Mdm4, Double minute 4 protein, Mdm2-like p53-binding protein, Protein Mdmx, p53-binding protein Mdm4, MDM4, MDMX

Dilution

WB~~1/500 - 1/2000
IHC~~1/500 - 1/2000
ICC~~N/A
E~~N/A

Storage

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.

Precautions

MDM4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MDM4 Antibody - Protein Information

Name MDM4

Synonyms MDMX

Function

Along with MDM2, contributes to TP53 regulation (PubMed:32300648). 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.

Cellular Location

Nucleus.

Tissue Location

Expressed in all tissues tested with high levels in thymus

MDM4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MDM4 Antibody - Images

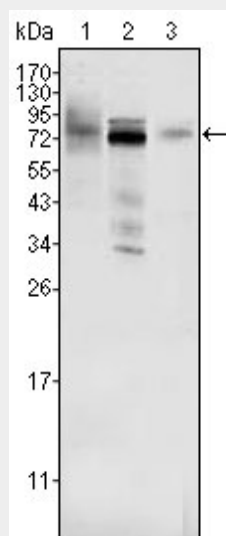


Figure 1: Western blot analysis using MDM4 mouse mAb against HeLa (1), A549 (2) and A431 (3) cell lysate.

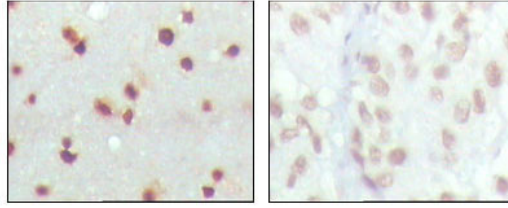


Figure 2: Immunohistochemical analysis of paraffin-embedded human cerebra (left) and lung carcinoma (right) tissues, showing nuclear localization with DAB staining using MDM4 mouse mAb.

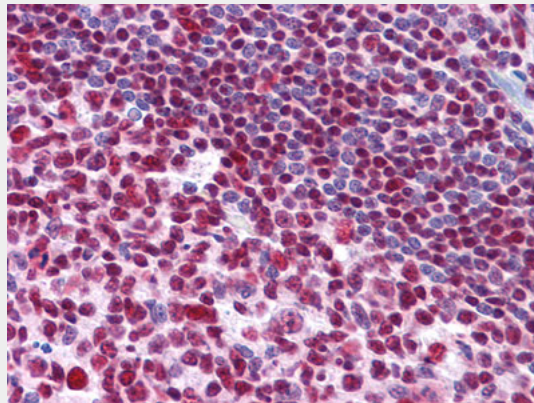


Figure 3: Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using MDM4 mouse mAb

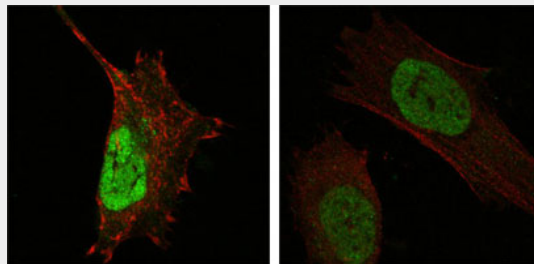


Figure 4: Confocal immunofluorescence analysis of HeLa (left) and L-02 (right) cells using MDM4 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin.

MDM4 Antibody - 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.