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MDM4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1201a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	O15151
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2D10F4
Isotype	IgG1
Calculated MW	54864
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.

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.

Protein Information

Name	MDM4
Synonyms	MDMX
Function	Contributes to p53/TP53 regulation (PubMed: 32300648). Inhibits p53/TP53- and p73/TP73-mediated cell cycle arrest and apoptosis by binding their transcriptional activation domains. Inhibits degradation of MDM2. Can reverse MDM2-targeted degradation of TP53 while maintaining suppression of TP53 transactivation and apoptotic functions.
Cellular Location	Nucleus. Cytoplasm
Tissue Location	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

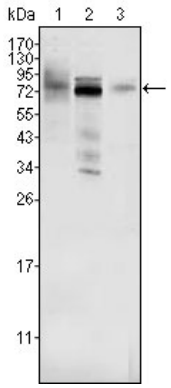


Figure 1: Western blot analysis using MDM4 mouse mAb against Hela (1), A549 (2) and A431 (3) cell lysate.

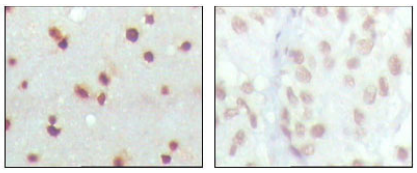


Figure 2: Immunohistochemical analysis of paraffin-embedded human cerebra (left) and lung carcinoma (right) tissues, showing nuclear localization with DAB staining using MDM4 mouse mAb.

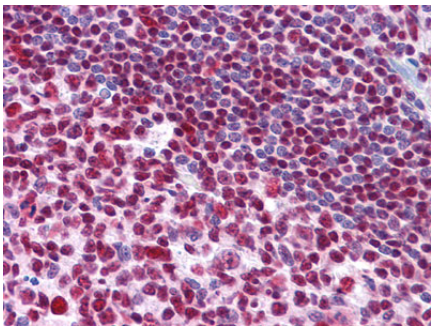
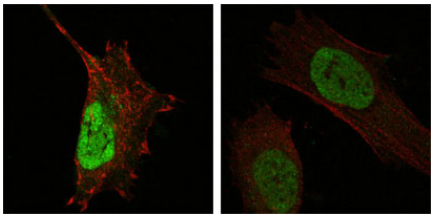


Figure 3: Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using MDM4 mouse mAb

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'.