

# MDM4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13861c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O15151</a>
<b>Other Accession</b>	<a href="#">NP_002384.2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB33903
<b>Calculated MW</b>	54864
<b>Antigen Region</b>	128-157

## 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>Target/Specificity</b>	This MDM4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 128-157 amino acids from the Central region of human MDM4.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	MDM4 Antibody (Center) 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>	Contributes to p53/TP53 regulation (PubMed: <a href="#">32300648</a> ). 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

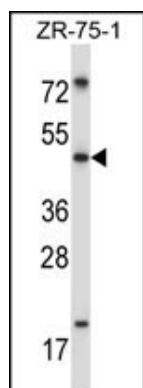
## Background

The human MDM4 gene, which plays a role in apoptosis, 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. Two transcript variants, one protein-coding and the other likely not to be protein-coding, have been found for this gene.

## References

Xu, N., et al. Biochem. Biophys. Res. Commun. 401(3):417-421(2010)  
Sarkari, F., et al. J. Mol. Biol. 402(5):825-837(2010)  
Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Fang, S., et al. PLoS ONE 5 (5), E10813 (2010) :

## Images



MDM4 Antibody (Center) (Cat. #AP13861c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the MDM4 antibody detected the MDM4 protein (arrow).

## Citations

- [MDM4 expression in fibromellar hepatocellular carcinoma.](#)

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