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MDM4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13861c

Product Information

Application	WB, E
Primary Accession	O15151
Other Accession	NP_002384.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33903
Calculated MW	54864
Antigen Region	128-157

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
Target/Specificity	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.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	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.
Storage	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.
Precautions	MDM4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

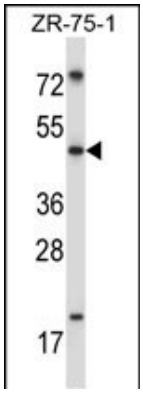
Background

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 fibrolamellar hepatocellular carcinoma.