

## Product datasheet for **CF505706**

### MDMX (MDM4) Mouse Monoclonal Antibody [Clone ID: OTI4B5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4B5
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:200~2000, IHC 1:150, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MDM4(NP_002384) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54.7 kDa
Gene Name:	MDM4 regulator of p53
Database Link:	<a href="#">NP_002384</a> <a href="#">Entrez Gene 4194 Human</a> <a href="#">O15151</a>



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**Background:**

This gene encodes a nuclear protein that contains a p53 binding domain at the N-terminus and a RING finger domain at the C-terminus, and shows structural similarity to p53-binding protein MDM2. Both proteins bind the p53 tumor suppressor protein and inhibit its activity, and have been shown to be overexpressed in a variety of human cancers. However, unlike MDM2 which degrades p53, this protein inhibits p53 by binding its transcriptional activation domain. This protein also interacts with MDM2 protein via the RING finger domain, and inhibits the latter's degradation. So this protein can reverse MDM2-targeted degradation of p53, while maintaining suppression of p53 transactivation and apoptotic functions. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Feb 2011]

**Synonyms:**

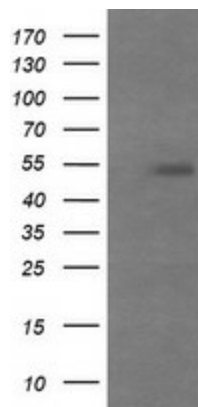
HDMX; MDMX; MRP1

**Protein Families:**

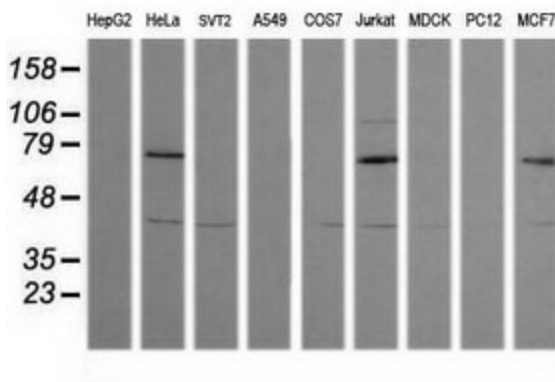
Druggable Genome, Transcription Factors

**Protein Pathways:**

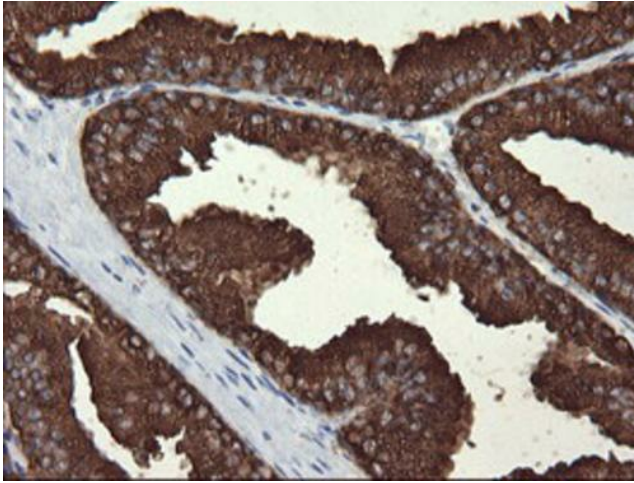
p53 signaling pathway

**Product images:**


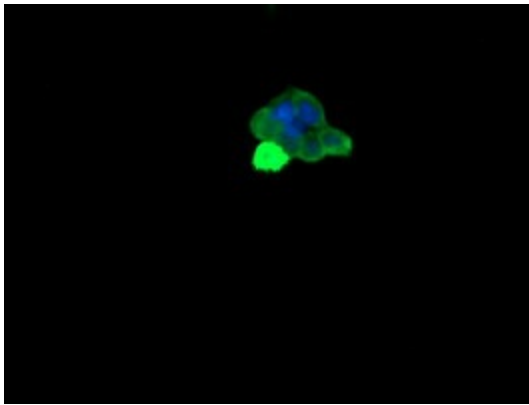
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MDM4 (Cat# [RC209620], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MDM4 (Cat# [TA505706]). Positive lysates [LY400856] (100ug) and [LC400856] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-MDM4 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-MDM4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA505706])



Anti-MDM4 mouse monoclonal antibody ([TA505706]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MDM4 ([RC209620]).