

## Product datasheet for CF505722

### MDMX (MDM4) Mouse Monoclonal Antibody [Clone ID: OT1D11]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OT1D11   |
| Applications:           | IF, IHC  |
| Recommended Dilution:   | IHC 1:150, IF 1:100  |
| Reactivity:             | Human  |
| Host:                   | Mouse  |
| Isotype:                | IgG2a  |
| 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><br><a href="#">Entrez Gene 4194 Human</a><br><a href="#">Q15151</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:**

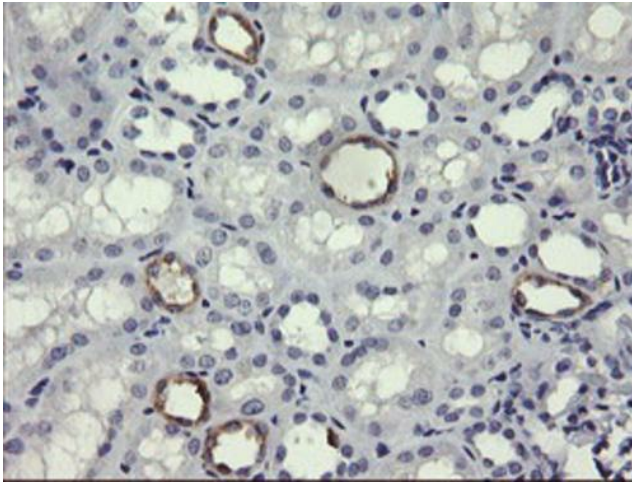
HDMX; MDMX; MRP1

**Protein Families:**

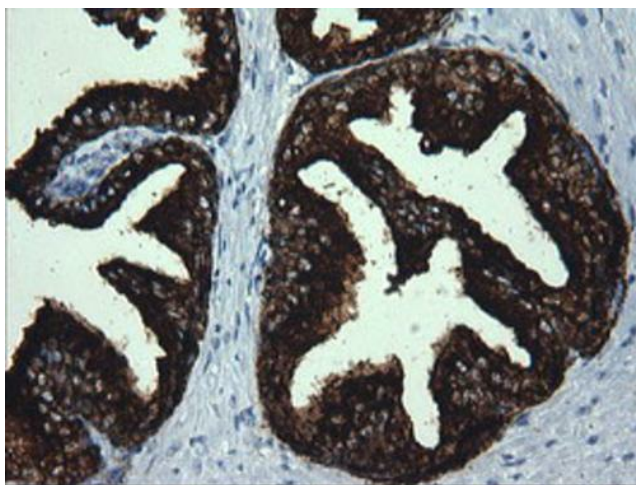
Druggable Genome, Transcription Factors

**Protein Pathways:**

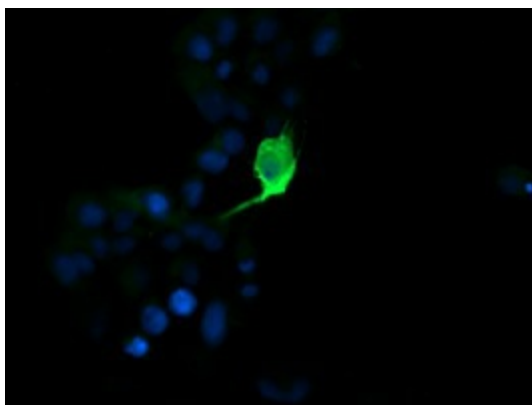
p53 signaling pathway

**Product images:**


Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-MDM4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-MDM4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-MDM4 mouse monoclonal antibody ([TA505722]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MDM4 ([RC209620]).