

# Anti-MDM2 Antibody [3G2]

## RT1382



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IP, IF, IHC-P
<b>Molecular Wt:</b>	55/90 kDa
<b>Clone number:</b>	3G2

**Description:** p53 is the most commonly mutated gene in human cancer identified to date. Expression of p53 leads to inhibition of cell growth by preventing progression of cells from G1 to S phase of the cell cycle. Most importantly, p53 functions to cause arrest of cells in the G1 phase of the cell cycle following any exposure of cells to DNA-damaging agents. The MDM2 (murine double minute-2) protein was initially identified as an oncogene in a murine transformation system. MDM2 functions to bind p53 and block p53-mediated transactivation of cotransfected reporter constructs. The MDM2 gene is amplified in a high percentage of human sarcomas that retain wildtype p53 and tumor cells that overexpress MDM2 can tolerate high levels of p53 expression. These findings argue that MDM2 overexpression represents at least one mechanism by which p53 function can be abrogated during tumorigenesis.

**Immunogen:** Amino acids 154-167 of MDM2 of human origin.

**Positive control:** U-2OS, A-673, RAW264.7, human breast carcinoma tissue.

**Subcellular location:** Cytoplasm, Nucleus

**Database links:** SwissProt: Q00987 Human

**Recommended Dilutions:**

<b>WB</b>	1:100-1:1,000
<b>IP</b>	1-2 µg per 100-500 µg of total protein(1 ml of cell lysate)
<b>IF</b>	1:50-1:500
<b>IHC-P</b>	1:50-1:500

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4℃

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

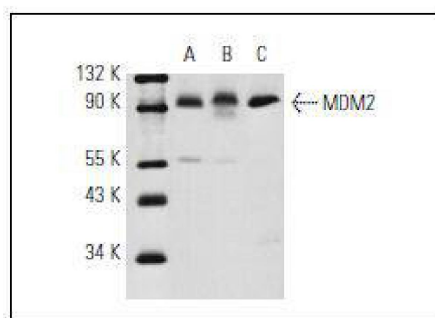
Technical:0086-571-89986345

Service mail:support@huabio.cn

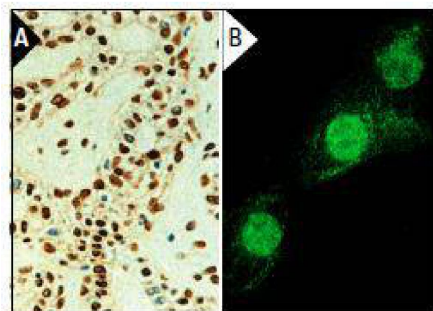
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images



**Fig1:** Western blot analysis of MDM2 expression in U-2OS (A), A-673 (B) and RAW 264.7 (C) whole cell lysates.



**Fig2:** Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast carcinoma tissue (A). Immunofluorescence staining of methanol-fixed rat embryo fibroblasts showing nuclear localization (B).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Amaral, J.D., et al. 2012. Live-cell imaging of p53 interactions using a novel Venus-based bimolecular fluorescence complementation system. *Biochem. Pharmacol.* 5: 745-752.
2. Morgado-Palacin, L., et al. 2012. Ribosomal stress induces L11- and p53-dependent apoptosis in mouse pluripotent stem cells. *Cell Cycle* 11: 503-510.
3. Sarkar, T.R., et al. 2012. Identification of a Src tyrosine kinase/SIAH2 E3 ubiquitin ligase pathway that regulates C/EBP $\delta$  expression and contributes to transformation of breast tumor cells. *Mol. Cell. Biol.* 32: 320-332.

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