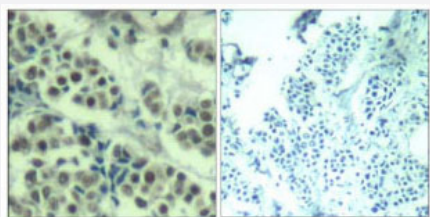


# MDM2 polyclonal antibody

Catalog # PAB12253      Size 100 uL

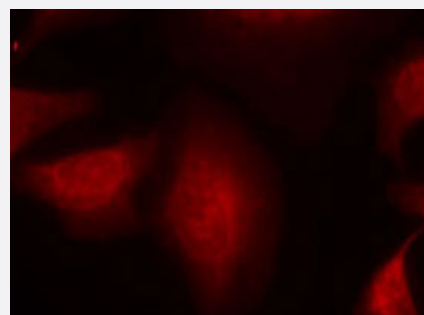
## Applications



Peptide - +

### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MDM2 polyclonal antibody (Cat # PAB12253).



### Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using MDM2 polyclonal antibody (Cat # PAB12253, Red).

## Specification

|                      |                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------|
| Product Description  | Rabbit polyclonal antibody raised against synthetic peptide of MDM2.                                |
| Immunogen            | A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S166 of human MDM2. |
| Sequence             | A1SET                                                                                               |
| Host                 | Rabbit                                                                                              |
| Theoretical MW (kDa) | 90                                                                                                  |
| Reactivity           | Human, Mouse, Rat                                                                                   |

|                         |                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Specificity             | MDM2 (Ab-166) Antibody detects endogenous levels of total MDM2 protein.                                                                     |
| Form                    | Liquid                                                                                                                                      |
| Purification            | Immunoaffinity purification                                                                                                                 |
| Concentration           | 1 mg/mL                                                                                                                                     |
| Quality Control Testing | Antibody Reactive Against Synthetic Peptide.                                                                                                |
| Recommend Usage         | Immunohistochemistry (1:50-1:100)<br>Immunofluorescence (1:100-1:200)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer          | In PBS (without $Mg^{2+}$ and $Ca^{2+}$ ), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)                                           |
| Storage Instruction     | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                          |
| Note                    | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                      |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MDM2 polyclonal antibody (Cat # PAB12253).

- Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using MDM2 polyclonal antibody (Cat # PAB12253, Red).

## Gene Info — MDM2

|                    |                                          |
|--------------------|------------------------------------------|
| Entrez GeneID      | <a href="#">4193</a>                     |
| Protein Accession# | <a href="#">Q00987</a>                   |
| Gene Name          | MDM2                                     |
| Gene Alias         | HDMX, MGC71221, hdm2                     |
| Gene Description   | Mdm2 p53 binding protein homolog (mouse) |
| Omim ID            | <a href="#">164785</a>                   |

## Gene Ontology

[Hyperlink](#)

## Gene Summary

This gene is a target gene of the transcription factor tumor protein p53. The encoded protein is a nuclear phosphoprotein that binds and inhibits transactivation by tumor protein p53, as part of an autoregulatory negative feedback loop. Overexpression of this gene can result in excessive inactivation of tumor protein p53, diminishing its tumor suppressor function. This protein has E3 ubiquitin ligase activity, which targets tumor protein p53 for proteasomal degradation. This protein also affects the cell cycle, apoptosis, and tumorigenesis through interactions with other proteins, including retinoblastoma 1 and ribosomal protein L5. More than 40 different alternatively spliced transcript variants have been isolated from both tumor and normal tissues. [provided by RefSeq]

## Other Designations

Mdm2, transformed 3T3 cell double minute 2, p53 binding protein|double minute 2, human homolog of; p53-binding protein|mouse double minute 2 homolog|p53-binding protein MDM2|ubiquitin-protein ligase E3 Mdm2

## Publication Reference

- [HER-2/neu induces p53 ubiquitination via Akt-mediated MDM2 phosphorylation.](#)

Zhou BP, Liao Y, Xia W, Zou Y, Spohn B, Hung MC.

Nature Cell Biology 2001 Nov; 3(11):973.

Application: IF, IHC, IP, WB-Tr, Human, Mouse, Breast cancer, HEK 293T cells, MEFs, NIH/3T3 cells

- [A phosphatidylinositol 3-kinase/Akt pathway promotes translocation of Mdm2 from the cytoplasm to the nucleus.](#)

Mayo LD, Donner DB.

PNAS 2001 Sep; 98(20):11598.

Application: IP, WB-Ce, WB-Re, Human, MCF-7 cells, Recombinant protein

- [p300/MDM2 complexes participate in MDM2-mediated p53 degradation.](#)

Grossman SR, Perez M, Kung AL, Joseph M, Mansur C, Xiao ZX, Kumar S, Howley PM, Livingston DM.

Molecular Cell 1998 Oct; 2(4):405.

Application: IP-WB, IP, WB-Tr, Human, SAOS-2, B-JAB, U2OS cells

## Pathway

- [Bladder cancer](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Endocytosis](#)

- [Glioma](#)
- [Melanoma](#)
- [p53 signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Ubiquitin mediated proteolysis](#)

## Disease

- [Abortion](#)
- [Acquired Hyperostosis Syndrome](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Anoxia](#)
- [Arthritis](#)
- [Asthma](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Diseases](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Cervical Intraepithelial Neoplasia](#)
- [Choroid Plexus Neoplasms](#)
- [Chromosome Aberrations](#)
- [Chronic Disease](#)

- [Cocarcinogenesis](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Constriction](#)
- [Critical Illness](#)
- [Crohn Disease](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fallopian Tube Neoplasms](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hepatitis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hodgkin Disease](#)
- [Inflammation](#)
- [Kidney Failure](#)

- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Leukoplakia](#)
- [Li-Fraumeni Syndrome](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroblastoma](#)
- [Neuroma](#)
- [Occupational Diseases](#)
- [Oligodendroglioma](#)
- [Osteosarcoma](#)
- [Ovarian cancer](#)

- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papilloma](#)
- [Papillomavirus Infections](#)
- [Peritoneal Neoplasms](#)
- [Pharyngeal Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Retinal Neoplasms](#)
- [Retinoblastoma](#)
- [Sepsis](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [The p53 tumor suppressor protein](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Wegener Granulomatosis](#)
- [Werner syndrome](#)