

**Phospho-MDM2 (S166) Antibody**  
Rabbit mAb  
Catalog # AP92939

**Specification**

---

**Phospho-MDM2 (S166) Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q00987</a>
Clonality	Monoclonal
<b>Other Names</b>	
ACTFS; Hdm2; HDMX; MDM2; MDM2BP; MTBP;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	55233 Da

**Phospho-MDM2 (S166) Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-MDM2 (S166)
Description	E3 ubiquitin-protein ligase that mediates ubiquitination of p53/TP53, leading to its degradation by the proteasome. Inhibits p53/TP53- and p73/TP73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Phospho-MDM2 (S166) Antibody - Protein Information**

**Name** MDM2

**Function**

E3 ubiquitin-protein ligase that mediates ubiquitination of p53/TP53, leading to its degradation by the proteasome (PubMed:<a href="http://www.uniprot.org/citations/29681526" target="\_blank">29681526</a>). Inhibits p53/TP53- and p73/TP73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. Also acts as a ubiquitin ligase E3 toward itself and ARRB1. Permits the nuclear export of p53/TP53. Promotes proteasome-dependent ubiquitin- independent degradation of retinoblastoma RB1 protein. Inhibits DAXX- mediated apoptosis by inducing its ubiquitination and degradation. Component of the TRIM28/KAP1-MDM2-p53/TP53 complex involved in stabilizing p53/TP53. Also a component of the TRIM28/KAP1-ERBB4-MDM2 complex which links growth factor and DNA damage response pathways. Mediates ubiquitination and subsequent proteasome degradation of DYRK2 in nucleus. Ubiquitinates IGF1R and SNAI1 and promotes them to proteasomal degradation (PubMed:<a

[12821780](http://www.uniprot.org/citations/12821780), PubMed:<[15053880](http://www.uniprot.org/citations/15053880)>, PubMed:<[15195100](http://www.uniprot.org/citations/15195100)>, PubMed:<[15632057](http://www.uniprot.org/citations/15632057)>, PubMed:<[16337594](http://www.uniprot.org/citations/16337594)>, PubMed:<[17290220](http://www.uniprot.org/citations/17290220)>, PubMed:<[19098711](http://www.uniprot.org/citations/19098711)>, PubMed:<[19219073](http://www.uniprot.org/citations/19219073)>, PubMed:<[19837670](http://www.uniprot.org/citations/19837670)>, PubMed:<[19965871](http://www.uniprot.org/citations/19965871)>, PubMed:<[20173098](http://www.uniprot.org/citations/20173098)>, PubMed:<[20385133](http://www.uniprot.org/citations/20385133)>, PubMed:<[20858735](http://www.uniprot.org/citations/20858735)>, PubMed:<[22128911](http://www.uniprot.org/citations/22128911)>). Ubiquitinates DCX, leading to DCX degradation and reduction of the dendritic spine density of olfactory bulb granule cells (By similarity). Ubiquitinates DLG4, leading to proteasomal degradation of DLG4 which is required for AMPA receptor endocytosis (By similarity). Negatively regulates NDUFS1, leading to decreased mitochondrial respiration, marked oxidative stress, and commitment to the mitochondrial pathway of apoptosis (PubMed:<[30879903](http://www.uniprot.org/citations/30879903)>). Binds NDUFS1 leading to its cytosolic retention rather than mitochondrial localization resulting in decreased supercomplex assembly (interactions between complex I and complex III), decreased complex I activity, ROS production, and apoptosis (PubMed:<[30879903](http://www.uniprot.org/citations/30879903)>).

#### Cellular Location

Nucleus, nucleoplasm. Cytoplasm. Nucleus, nucleolus. Nucleus. Note=Expressed predominantly in the nucleoplasm. Interaction with ARF(P14) results in the localization of both proteins to the nucleolus. The nucleolar localization signals in both ARF(P14) and MDM2 may be necessary to allow efficient nucleolar localization of both proteins. Colocalizes with RASSF1 isoform A in the nucleus

#### Tissue Location

Ubiquitous. Isoform Mdm2-A, isoform Mdm2-B, isoform Mdm2-C, isoform Mdm2-D, isoform Mdm2-E, isoform Mdm2-F and isoform Mdm2-G are observed in a range of cancers but absent in normal tissues

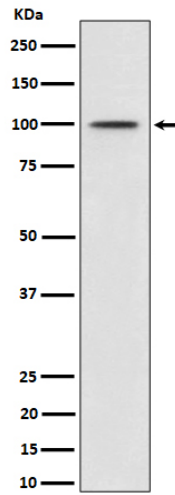
#### Phospho-MDM2 (S166) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Phospho-MDM2 (S166) Antibody - Images





Western blot analysis of Phospho-MDM2 (S166) expression in MCF7 cell treated with IGF-1 lysate.