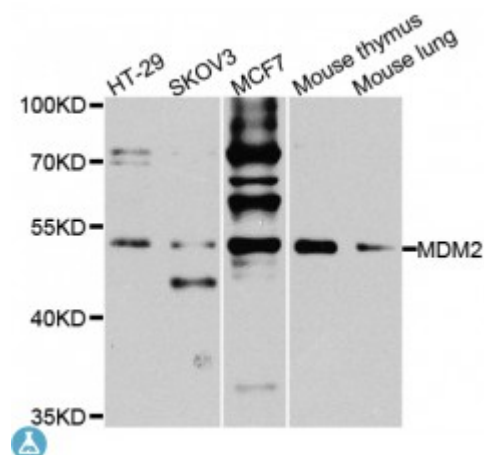


Anti-MDM2 Antibody



Description

This gene encodes a nuclear-localized E3 ubiquitin ligase. The encoded protein can promote tumor formation by targeting tumor suppressor proteins, such as p53, for proteasomal degradation. This gene is itself transcriptionally-regulated by p53. Overexpression or amplification of this locus is detected in a variety of different cancers. There is a pseudogene for this gene on chromosome 2. Alternative splicing results in a multitude of transcript variants, many of which may be expressed only in tumor cells.

Model	STJ115290
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 200-430 of human MDM2 (NP_002383.2).
Gene ID	4193
Gene Symbol	MDM2
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	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
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	E3 ubiquitin-protein ligase Mdm2
Molecular Weight	55.233 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6973 OMIM:164785 Reactome:R-HSA-198323
Alternative Names	E3 ubiquitin-protein ligase Mdm2
Function	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, 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 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 ,
Cellular Localization	Nucleus, nucleoplasm, Cytoplasm, Nucleus, nucleolus,
Post-translational Modifications	Phosphorylation on Ser-166 by SGK1 activates ubiquitination of p53/TP53, Phosphorylated at multiple sites near the RING domain by ATM upon DNA damage