MDM2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MDM2, Monoclonal Antibody
Full Product Name	MDM2 Mouse mAb
Product Gene Name	anti-MDM2 antibody
Product Synonym Names	E3 ubiquitin-protein ligase Mdm2; 6.3.2.-; Double minute 2 protein; Hdm2; Oncoprotein Mdm2; p53-binding protein Mdm2; MDM2
Clonality	Monoclonal
Host	Mouse
Species Reactivity	Human
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
OMIM	164785
3D Structure	ModBase 3D Structure for Q00987
Immunogen	This MDM2 antibody is generated from a mouse immunized with a recombinant protein between 196-435 amino acids from the human MDM2.
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MDM2 antibody	Western Blot (WB)
Application Notes for anti-MDM2 antibody	WB: 1:4000
Related Product Information for anti-MDM2 antibody	MBS8556618 is an antibody targeting MDM2. Also known as MDM2 Mouse mAb. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-MDM2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MDM2. It may not necessarily be applicable to this product.

NCBI GI #	89993689
NCBI GeneID	4193
NCBI Accession #	NP_002383.2
UniProt Primary Accession #	Q00987
UniProt Related Accession #	Q00987
GenBank Nucleotide #	NP_002383.2
NCBI Official Full Name	E3 ubiquitin-protein ligase Mdm2 isoform a

NCBI Official Synonym Full Names	MDM2 proto-oncogene
NCBI Official Symbol	MDM2
NCBI Official Synonym Symbols	HDMX; hdm2; ACTFS
UniProt Protein Name	E3 ubiquitin-protein ligase Mdm2
UniProt Synonym Protein Names	Double minute 2 protein; Hdm2; Oncoprotein Mdm2; p53-binding protein Mdm2
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	MDM2
UniProt Synonym Gene Names	Hdm2
UniProt Entry Name	MDM2_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase Mdm2
NCBI Summary for MDM2	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. [provided by RefSeq, Jun 2013]
UniProt Comments for MDM2	MDM2: a ubiquitin ligase for p53, plays a central role in regulation of the stability of p53 via Akt-mediated MDM2 phosphorylation. Phosphorylation of MDM2 increases its interaction with p300, providing a platform to allow the assembly of the protein complex necessary for MDM2-mediated ubiquitination and degradation of p53. Phosphorylation of MDM2 also blocks its binding to p19ARF, increasing the degradation of p53. Facilitates the nuclear export of p53 and targets it for proteasome-mediated proteolysis. Eight alternatively spliced isoforms have been reported. Protein type: Ligase; EC 6.3.2.19; EC 6.3.2.-; Ubiquitin ligase; Oncoprotein; Inhibitor; Ubiquitin conjugating system; Nucleolus Chromosomal Location of Human Ortholog: 12q14.3-q15 Cellular Component: nucleoplasm; nuclear body; protein complex; cytoplasm; nucleolus; plasma membrane; synapse; cytosol; nucleus Molecular Function: identical protein binding; protein binding; peroxisome proliferator activated receptor binding; enzyme binding; zinc ion binding; p53 binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; ligase activity Biological Process: viral reproduction; nerve growth factor receptor signaling pathway; protein ubiquitination during ubiquitin-dependent protein catabolic process; protein ubiquitination; response to morphine; negative regulation of caspase activity; negative regulation of transcription from RNA polymerase II promoter; positive regulation of mitotic cell cycle; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; response to carbohydrate stimulus; response to antibiotic; positive regulation of protein export from nucleus; synaptic transmission; negative regulation of DNA damage response, signal transduction by p53 class mediator; response to magnesium ion; establishment of protein localization; peptidyl-lysine modification; positive regulation of cell proliferation; protein complex assembly; response to iron ion; epidermal growth factor receptor signaling pathway; response to drug; traversing start control point of mitotic cell cycle; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; protein destabilization; response to ether; response to cocaine; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; innate immune response; regulation of protein catabolic process; negative regulation of transcription, DNA-dependent Disease: Accelerated Tumor Formation, Susceptibility To
Research Articles on MDM2	**1.** Describe subcutaneous fatty neoplasm characterized by notable adipocytic size variation, patchy single-cell fat necrosis, focal (usually mild) adipocytic atypia, p53 overexpression, RB1 gene abnormalities and an absence of MDM2 gene amplification.

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