



Human MDM2 peptide (DAG-P1784)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jun 2013]
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.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the MDM2/MDM4 family.Contains 1 RanBP2-type zinc finger.Contains 1 RING-type zinc finger.Contains 1 SWIB domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MDM2 MDM2 oncogene, E3 ubiquitin protein ligase [Homo sapiens (human)]
Official Symbol	MDM2

Synonyms	MDM2; MDM2 oncogene, E3 ubiquitin protein ligase; HDMX; hdm2; ACTFS; E3 ubiquitin-protein ligase Mdm2; oncoprotein Mdm2; Mdm2, p53 E3 ubiquitin protein ligase homolog; double minute 2, human homolog of; p53-binding protein; Mdm2, transformed 3T3 cell double minute 2, p53 binding protein;
Entrez Gene ID	4193
mRNA Refseq	NM_001145337.2
Protein Refseq	NP_001138809.1
UniProt ID	A7UKX8
Chromosome Location	12q14.3-q15
Pathway	AKT phosphorylates targets in the cytosol, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Androgen receptor signaling pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Aurora A signaling, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cel
Function	enzyme binding; identical protein binding; p53 binding; peroxisome proliferator activated receptor binding; protein binding; scaffold protein binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; ubiquitin-protein ligase activity;