

# MDM2 Knockdown HCT116 Cell Lysate, Heterozygous

Catalog No.: RM02028

## Basic Information

### Catalog No.

RM02028

### Category

Cell Lysate

### Parental Cell line

HCT116

### Genotype

Knockdown

## Gene Information

### Gene Symbol

MDM2

### Species

Human

### Gene ID

4193

### Swiss Prot

Q00987

### Synonyms

ACTFS; HDMX; hdm2

## Contact

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## Background

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]

## Product Information

### Description

MDM2 Knockdown HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing technology.

Allele-1:24bp deletion in exon1

Allele-2:38bp deletion in exon1

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles.

Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins.

Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

### Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

### Shipping Conditions

4°C

### Amount

50μL, 2μg/μL.

### Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

### Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

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WT    ATGTCTGTACCTAC\*\*\*\*\*GATTCCAGCTTCGG  
Mut   ATGTCTGTACCTAC\*\*\*Deletion\*\*\*GATTCCAGCTTCGG  
Allele-1: 24bp deletion in exon1

WT    AATACCAACATGTC\*\*\*\*\*CAGCTTCGGAACAA  
Mut   AATACCAACATGTC\*\*\*Deletion\*\*\*CAGCTTCGGAACAA  
Allele-2: 38bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and MDM2 Knockdown (KD) HCT116 cells, using sanger sequencing.