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MDM2 Knockdown HCT116 Cell Lysate, Heterozygous

Catalog No.: RM02028

Basic Information

Catalog No.
RM02028

Category
Cell Lysate

Parental Cell line
HCT116

Genotype
Knockdown

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]

Gene Information

Gene Symbol
MDM2

Species
Human

Gene ID
4193

Swiss Prot
Q00987

Synonyms
ACTFS; HDMX; hdm2

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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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.

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Sequencing data

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.

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