

# MYC Knockdown HCT116 Cell Lysate, Heterozygous

Catalog No.: RM02247 **1 Publications**

## Basic Information

**Catalog No.**

RM02247

**Category**

Cell Lysate

**Parental Cell line**

HCT116

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

MYC

**Species**

Human

**Gene ID**

4609

**Swiss Prot**

P01106

**Synonyms**

MRTL; MYCC; bHLHe39; c-Myc

## Contact

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## Background

The protein encoded by this gene is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

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

Allele-1:177bp deletion in exon2

Allele-2:199bp deletion in exon2

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 ACTATGACCTCGAC\*\*\*\*\*GTTGCGGTCACACC  
Mut ACTATGACCTCGAC\*\*\*Deletion\*\*\*GTTGCGGTCACACC  
Allele-1: 177bp deletion in exon2  
WT CTTACCAACAGGA\*\*\*\*\*CACACCCTTCTCCC  
Mut CTTACCAACAGGA\*\*\*Deletion\*\*\*GTACACCCTTCTCCC  
Allele-2: 199bp deletion in exon2

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