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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

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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℃

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.

Sequencing data

WT ACTATGACCTCGAC**********GTTGCGGTCACACC
Mut ACTATGACCTCGAC***Deletion***GTTGCGGTCACACC
Allele-1: 177bp deletion in exon2

WT CTTCACCAACAGGA**********CACACCCTTCTCCC
Mut CTTCACCAACAGGA***Deletion***GTCACCCTTCTCCC
Allele-2: 199bp deletion in exon2

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

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