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TET2 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM50153

Basic Information

Catalog No.
RM50153

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
TET2

Species
Human

Gene ID
54790

Swiss Prot
Q6N021

Synonyms
MDS; IMD75; KIAA1546; TET2

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Background

The protein encoded by this gene is a methylcytosine dioxygenase that catalyzes the conversion of methylcytosine to 5-hydroxymethylcytosine. The encoded protein is involved in myelopoiesis, and defects in this gene have been associated with several myeloproliferative disorders. Two variants encoding different isoforms have been found for this gene.

Product Information

Description
TET2 Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:160bp deletion in exon1
Allele-2:174bp 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
Lysate is stable for 12 months when stored at -20℃. 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

WT AGGGAAGCCAGAAT**********TCGGGGTAAGCCAA
Mut AGGGAAGCCAGAAT***Deletion***TCGGGGTAAGCCAA
Allele-1: 160bp deletion in exon1

WT AATACCCTGTATGA**********TCGGGGTAAGCCAA
Mut AATACCCTGTATGA***Deletion***TCGGGGTAAGCCAA
Allele-2: 174bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and TET2 knockdown (KD) 293T cells, using sanger sequencing.