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# TET1 Knockdown 293T Cell Lysate, Heterozygous

**Catalog No.: RM02038**

## Basic Information

**Catalog No.**
RM02038

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockdown

## Gene Information

**Gene Symbol**
TET1

**Species**
Human

**Gene ID**
80312

**Swiss Prot**
Q8NFU7

**Synonyms**
CXXC6; LCX; bA119F7.1

## Contact


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## Background

DNA methylation is an epigenetic mechanism that is important for controlling gene expression. The protein encoded by this gene is a demethylase that belongs to the TET (ten-eleven translocation) family. Members of the TET protein family play a role in the DNA methylation process and gene activation. [provided by RefSeq, Sep 2015]

## Product Information

**Description**
TET1 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:155bp deletion in exon1
Allele-2:168bp 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.

## Sequencing data

```
WT    TAAACCACCCGTGC**************GTCGTAGCCAAATC
Mut   TAAACCACCCGTGC***Deletion***GTCGTAGCCAAATC
Allele-1：155bp deletion in exon1

WT    AACCTAAACCACCC**************AAATCCAAAAAGGT
Mut   AACCTAAACCACCC***Deletion***AAATCCAAAAAGGT
Allele-2：168bp deletion in exon1
```

Genome sequence analysis of PCR products from parental (WT) and TET1 knockdown (KD) 293T cells, using sanger sequencing.



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