

# FOXO3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02318

## Basic Information

**Catalog No.**

RM02318

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

FOXO3

**Species**

Human

**Gene ID**

2309

**Swiss Prot**

O43524

**Synonyms**

AF6q21; FKHL1; FKHL1P2; FOXO2;  
FOXO3A

## Contact

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## Background

This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

FOXO3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:1bp deletion in exon1

Allele-2:32bp 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°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 CCTTGAGGACTCGGCCCGGTGCTGGCAC  
Mut CCTTGAGGACTCGG - CCGGGTGTGGCAC  
Allele-1: 1bp deletion in exon1

WT GCGGGGAGCGGCAC\*\*\*\*\*CCCGGTGCTGGCA  
Mut GCGGGGAGCGGCAC\*\*\*Deletion\*\*\*CCCGGTGCTGGCA  
Allele-2: 32bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and FOXO3 Knockout (KO) 293T cells, using sanger sequencing.