

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

WT CCTTGAGGACTCGGCCCGGGTGCTGGCAC
Mut CCTTGAGGACTCGG -CCGGGTGCTGGCAC
Allele-1: 1bp deletion in exon1
WT GCGGGGAGCGGCAC*****CCCGGGTGCTGGCA
Mut GCGGGGAGCGGCAC***Deletion***CCCGGGTGCTGGCA
Allele-2: 32bp deletion in exon1

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