

# FOXO1 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02050

## Basic Information

**Catalog No.**

RM02050

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

FOXO1

**Species**

Human

**Gene ID**

2308

**Swiss Prot**

Q12778

**Synonyms**

FKH1; FKHR; FOXO1A

## Contact

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## Background

This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

FOXO1 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:1bp deletion in exon1

Allele-2:12bp 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 CGGCCCGCGCGGCCACCGGGGGCTGTGCGGGGAC  
Mut CGGCCCGCGCGGCCA-CGGGGGGCTGTGCGGGGAC  
Allele-1: 1bp deletion in exon1  
WT GGC GCGCGCGCGCGG\*\*\*\*\*GGGGGCTGTGCGGG  
Mut GGC GCGCGCGCGCGG\*\*\*Deletion\*\*\*GGGGGCTGTGCGGG  
Allele-2: 12bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and FOXO1 Knockdown (KD) HeLa cells, using sanger sequencing.