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## FOS Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02011

#### **Basic Information**

#### Catalog No.

RM02011

#### Category

Cell Lysate

#### **Parental Cell line**

HeLa

#### Genotype

Knockout

#### **Background**

The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of the FOS gene has also been associated with apoptotic cell death. [provided by RefSeq, Jul 2008]

#### **Gene Information**

#### **Gene Symbol**

FOS

#### **Species**

Human

#### Gene ID

2353

#### **Swiss Prot**

P01100

#### **Synonyms**

AP-1; C-FOS; p55

#### **Contact**

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#### **Product Information**

#### Description

FOS Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology. Allele-1:139bp deletion in exon2

Allele-2:140bp deletion in exon2

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 ConditionsAmount $4^{\circ}C$ $50\mu$ L, $2\mu$ g/ $\mu$ L.

#### 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  $1\times$  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

GGTCACTGCCATCT\*\*\*\*\*\*\*\*\*CATGACAGGAGGCC Mut GGTCACTGCCATCT\*\*\*Deletion\*\*\*CATGACAGGAGGCC Allele-1: 139bp deletion in exon2

WT GGTCACTGCCATCT\*\*\*\*\*\*\*\*ATGACAGGAGGCCG Mut GGTCACTGCCATCT\*\*\*Deletion\*\*\*ATGACAGGAGGCCG

Allele-2: 140bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and FOS knockout (KO) HeLa cells, using sanger sequencing.