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FOS Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02011

Basic Information

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RM02011

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
FOS

Species
Human

Gene ID
2353

Swiss Prot
P01100

Synonyms
AP-1; C-FOS; p55

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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]

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 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    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.

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