# **KEAP1 Knockout 293T Cell Line, Homozygous**

Catalog No.: RM02203



### **Basic Information**

Catalog No. RM02203

Category Cell Line

Parental Cell line 293T

Genotype

Knockout

## **Gene Information**

Gene Symbol KEAP1

Species Human

**Gene ID** 9817

Swiss Prot Q14145

Synonyms INrf2; KLHL19

## Contact

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## Background

This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 to the nucleus. This interaction results in the expression of the catalytic subunit of gamma-glutamylcysteine synthetase. Two alternatively spliced transcript variants encoding the same isoform have been found for this gene. [provided by RefSeq, Jul 2008]

## **Product Information**

#### Description

KEAP1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology. Allele-1:14bp deletion and 5bp deletion in exon1

Allele-2:169bp 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 line and 1 vial knockout cell line

#### **Shipping Conditions**

Dry ice

Amount 1~5x10<sup>6</sup> cells/vial

#### Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

#### Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at  $37^{\circ}$ C with 5% CO<sub>2</sub> condition.

- 1. Thaw the vial in 37°C water bath ,and shake it to melt as soon as possible.
- Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
  Remove and discard the supernatant.
- 4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
- 5. Add 8-10mL of complete medium.
- 6. Incubate the culture at 37°C incubator with 5%  $CO_2$ .
- 7. A subcultivation ratio of 1:2-1:4 is recommended.

## Sequencing data

WT CCTTIGGCATCATG\*\*\*\*\*CAGCCAGCAGCTG\*\*\*TGTCACCAACGGGCAGGGGAGAGGGCATGG Mat CCTTIGGCATCATG\*\*\*Deletour\*\*GGGCCAGCAGCGCTG\*\*\*TGTCACCAACGGGCATGG Allee1\*1 High databar and Sap adeleton in seant Mit CATCAGCAGCGC\*\*\*Deletour\*\*ATGGGGGGGTGTC Allee2\*1 1980 deleton in seant

Genome sequence analysis of PCR products from parental (WT) and KEAP1 knockout (KO) 293T cells, using sanger sequencing.