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# CEA Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02543

#### **Basic Information**

#### Catalog No.

RM02543

#### Category

Cell Line

#### **Parental Cell line**

HeLa

#### Genotype

Knockdown

### **Background**

This gene encodes a cell surface glycoprotein that represents the founding member of the carcinoembryonic antigen (CEA) family of proteins. The encoded protein is used as a clinical biomarker for gastrointestinal cancers and may promote tumor development through its role as a cell adhesion molecule. Additionally, the encoded protein may regulate differentiation, apoptosis, and cell polarity. This gene is present in a CEA family gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]

#### **Gene Information**

#### **Gene Symbol**

CEA

#### **Species**

Human

## Gene ID

1048

#### **Swiss Prot**

P06731

#### **Synonyms**

CD66e; CEA

#### **Contact**

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#### **Product Information**

#### Description

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

Allele-1:exon1 was deleted

Allele-2:WT

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**

**Amount** 

Dry ice

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

#### Storage

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

#### Protoco

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.
- 2. 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.
- 3. 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<sub>2</sub>.
- 7. A subcultivation ratio of 1:2-1:4 is recommended.

# Sequencing data

WT TTCCTGGAACTCAA\*\*\*\*\*\*\*\*\*\*\*\*CCTGGGAGAGGGTG
Mut TTCCTGGAACTCAA\*\*\*Deletion\*\*\*CCTGGGAGAGGGTG
Allele-1: exon1 was deleted

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