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# CD44 Knockdown HeLa Cell Line, Heterozygous

**Catalog No.: RM01873**

## Basic Information

**Catalog No.**
RM01873

**Category**
Cell Line

**Parental Cell line**
HeLa

**Genotype**
Knockdown

## Background

The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul 2008]

## Gene Information

**Gene Symbol**
CD44

**Species**
Human

**Gene ID**
960

**Swiss Prot**
P16070

**Synonyms**
CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1

## Product Information

**Description**
CD44 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:43bp deletion in exon2
Allele-2:45bp 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 line and 1 vial knockout cell line

**Shipping Conditions**
Dry ice

**Amount**
1~5x$10^6$ cells/vial

**Storage**
Stored in liquid nitrogen for a long time less than -130℃. 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℃ with 5% $CO_2$ condition.
1. Thaw the vial in 37℃ 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℃ incubator with 5% $CO_2$.
7. A subcultivation ratio of 1:2-1:4 is recommended.

## Contact


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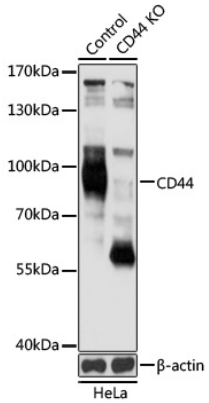
## Sequencing data

WT AGCATCTCTCGGAC**********ACAATGGCCCAGAT
Mut AGCATCTCTCGGAC***Deletion***ACAATGGCCCAGAT
Allele-1: 43bp deletion in exon2

WT AGCATCTCTCGGAC**********AATGGCCCAGATGG
Mut AGCATCTCTCGGAC***Deletion***AATGGCCCAGATGG
Allele-2: 45bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and CD44 Knockdown (KD) HeLa cells, using sanger sequencing.

## WB data




Western blot analysis of extracts from parental (Control) and CD44 knockdown (KD) HeLa Cell Line, using CD44 antibody at 1:1000 dilution.