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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

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

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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]

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
1~5x10^6 cells/vial

Storage
Store at -20℃

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.

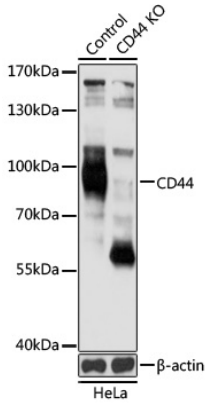
Sequencing data

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.