

# CD44 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM01855

## Basic Information

**Catalog No.**

RM01855

**Category**

Cell Lysate

**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

## Contact

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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 Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**

4°C

**Amount**

50μL, 2μg/μL.

**Storage**

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

**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

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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.