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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

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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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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