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# DCN Knockout HeLa Cell Lysate, Homozygous

**Catalog No.: RM01996**

## Basic Information

**Catalog No.**
RM01996

**Category**
Cell Lysate

**Parental Cell line**
HeLa

**Genotype**
Knockout

## Gene Information

**Gene Symbol**
DCN

**Species**
Human

**Gene ID**
1634

**Swiss Prot**
P07585

**Synonyms**
CSCD; DSPG2; PG40; PGII; PGS2; SLRR1B

## Contact


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## Background

This gene encodes a member of the small leucine-rich proteoglycan family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. This protein plays a role in collagen fibril assembly. Binding of this protein to multiple cell surface receptors mediates its role in tumor suppression, including a stimulatory effect on autophagy and inflammation and an inhibitory effect on angiogenesis and tumorigenesis. This gene and the related gene biglycan are thought to be the result of a gene duplication. Mutations in this gene are associated with congenital stromal corneal dystrophy in human patients. [provided by RefSeq, Nov 2015]

## Product Information

**Description**
DCN Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:77bp deletion in exon1
Allele-2:77bp deletion in exon1
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**
Lysate is stable for 12 months when stored at -20℃. 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

```
WT     CCTGGGCTGGACCG***************CGACTTCGAGCCCT
Mut    CCTGGGCTGGACCG***Deletion***CGACTTCGAGCCCT
Allele-1：77bp deletion in exon1

WT     CCTGGGCTGGACCG***************CGACTTCGAGCCCT
Mut    CCTGGGCTGGACCG***Deletion***CGACTTCGAGCCCT
Allele-2：77bp deletion in exon1
```

Genome sequence analysis of PCR products from parental (WT) and DCN knockout (KO) HeLa cells, using sanger sequencing.