

# KRT8 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02787

## Basic Information

### Catalog No.

RM02787

### Category

Cell Lysate

### Parental Cell line

HeLa

### Genotype

Knockout

## Gene Information

### Gene Symbol

KRT8

### Species

Human

### Gene ID

3856

### Swiss Prot

P05787

### Synonyms

K8; KO; CK8; CK-8; CYK8; K2C8; CARD2; Cytokeratin 8 (KRT8)

## Contact

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## Background

This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene.

## Product Information

### Description

KRT8 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:47bp deletion in exon2

Allele-2:3bp insertion and 26bp 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 TTTGCGGTGGCCT\*\*\*\*\*TTACGGTCAACCAG  
Mut TTTGCGGTGGCCT\*\*\*Deletion\*\*\*TTACGGTCAACCAG  
Allele-1: 47bp deletion in exon2

WT GTGGC\*\*\*\*\*GGGC\*\*GCCA \*\*\*\*\*TTACG  
Mut GTGGC\*Deletion\*GGGC\*\*GCCA**TGC**\*Deletion\*TTACG  
Allele-2: 3bp Insertion and 26bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and KRT8 knockout (KO) HeLa cells, using sanger sequencing.