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KRT8 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02787

Basic Information

Catalog No.
RM02787

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

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.

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)

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℃

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.

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Sequencing data

WT TTTCGCGGTGGCCT**********TTACGGTCAACCAG
Mut TTTCGCGGTGGCCT***Deletion***TTACGGTCAACCAG
AIlele-1: 47bp deletion in exon2

WT GTGGC*********GGGC**GCCA *********TTACG
Mut GTGGC*Deletion*GGGC**GCCATGC*Deletion*TTACG
AIlele-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.