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MUC1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02475

Basic Information

Catalog No.
RM02475

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2011]

Gene Information

Gene Symbol
MUC1

Species
Human

Gene ID
4582

Swiss Prot
P15941

Synonyms
ADMCKD; ADMCKD1; CA 15-3; CD227; EMA; H23AG; KL-6; MAM6; MCD; MCKD; MCKD1; MUC-1; MUC-1/SEC; MUC-1/X; MUC1/ZD; PEM; PEMT; PUM

Product Information

Description
MUC1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:182bp deletion in exon1
Allele-2:182bp 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.

Contact

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Sequencing data

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WT     GACCGGTATAAAGC**************TAGGTGGTCTTCGTG
Mut    GACCGGTATAAAGC***Deletion***TAGGTGGTCTTCGTG
Allele-1：182bp deletion in exon1

WT     GACCGGTATAAAGC**************TAGGTGGTCTTCGTG
Mut    GACCGGTATAAAGC***Deletion***TAGGTGGTCTTCGTG
Allele-2：182bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and MUC1 knockout (KO) HeLa cells, using sanger sequencing.