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MUC4 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02558

Basic Information

Catalog No.
RM02558

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
MUC4

Species
Human

Gene ID
4585

Swiss Prot
Q99102

Synonyms
ASGP; HSA276359; MUC-4

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Background

The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface, although secreted isoforms may exist. At least two dozen transcript variants of this gene have been found, although for many of them the full-length transcript has not been determined or they are found only in tumor tissues. This gene contains a region in the coding sequence which has a variable number (>100) of 48 nt tandem repeats. [provided by RefSeq, Jul 2008]

Product Information

Description
MUC4 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:44bp deletion in exon3;Allele-2:43bp deletion in exon3
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

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WT   GGGACCTGGAGTTC**********GACTGGCTTCCCCC
Mut  GGGACCTGGAGTTC***Deletion***GACTGGCTTCCCCC
AIlele-1:   44bp deletion in exon3

WT   GGGACCTGGAGTTC**********CGACTGGCTTCCCC
Mut  GGGACCTGGAGTTC***Deletion***CGACTGGCTTCCCC
AIlele-2:   43bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and MUC4 knockout (KO) HeLa cells, using sanger sequencing.