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FN1 Knockout U-87 MG Cell Lysate, Homozygous

Catalog No.: RM50027

Basic Information

Catalog No.
RM50027

Category
Cell Lysate

Parental Cell line
U-87 MG

Genotype
Knockout

Gene Information

Gene Symbol
FN1

Species
Human

Gene ID
2335

Swiss Prot
P02751

Synonyms
FN; CIG; FNZ; MSF; ED-B; FINC; GFND; LETS; GFND2; SMDCF; Fibronectin

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Background

This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. The encoded preproprotein is proteolytically processed to generate the mature protein. Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing. The full-length nature of some variants has not been determined.

Product Information

Description
FN1 Knockout cell line is engineered from U-87 MG cell line with Gene-Editing Technology.
Allele-1:1bp deletion in exon3
Allele-2:61bp 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
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.

Sequencing data

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WT   TGGGAACACTTACC**********AGTGGGTGACACTT
Mut  TGGGAACACTTACC***Deletion***AGTGGGTGACACTT
AIlele-1:   1bp deletion in exon3

WT   CTGGGAACACTTAC**********GGGCTGGGCGAGG
Mut  CTGGGAACACTTAC***Deletion***GGGCTGGGCGAGG
AIlele-2:   61bp deletion in exon3
```

Genome sequence analysis of PCR products from parental (WT) and FN1 knockout (KO) U-87 MG cells, using sanger sequencing.

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