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SMPD1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02357

Basic Information

Catalog No.
RM02357

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
SMPD1

Species
Human

Gene ID
6609

Swiss Prot
P17405

Synonyms
ASM; ASMASE; NPD

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Background

The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2010]

Product Information

Description
SMPD1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:142bp deletion in exon1
Allele-2:142bp 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.

Sequencing data

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WT    GGACAAGACGGGAC**************AGGTTACATCGCAT
Mut   GGACAAGACGGGAC***Deletion***AGGTTACATCGCAT
Allele-1: 142bp deletion in exon1

WT    GGACAAGACGGGAC**************AGGTTACATCGCAT
Mut   GGACAAGACGGGAC***Deletion***AGGTTACATCGCAT
Allele-2: 142bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and SMPD1 knockout (KO) HeLa cells, using sanger sequencing.