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HSPD1 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02356

Basic Information

Catalog No.
RM02356

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
HSPD1

Species
Human

Gene ID
3329

Swiss Prot
P10809

Synonyms
CPN60; GROEL; HLD4; HSP-60; HSP60; HSP65; HuCHA60; SPG13

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Background

This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Several pseudogenes have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13. [provided by RefSeq, Jun 2010]

Product Information

Description
HSPD1 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:WT
Allele-2:exon2 was deleted
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

WT AAATCATCCTTAGG**********ACCTAAGGAAAGTG
Mut AAATCATCCTTAGG***Deletion***ACCTAAGGAAAGTG
Allele-1: WT

WT AAATCATCCTTAGG**********ACCTAAGGAAAGTG
Mut AAATCATCCTTAGG***Deletion***ACCTAAGGAAAGTG
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and HSPD1 Knockdown (KD) HeLa cells, using sanger sequencing.

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