

# 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

## Contact

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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°C

### Amount

50µL, 2µg/µL.

### Storage

Lysate is stable for 12 months when stored at -20°C. 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 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.