

PIWIL4 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02291

Basic Information

Catalog No.

RM02291

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

PIWIL4

Species

Human

Gene ID

143689

Swiss Prot

Q7Z3Z4

Synonyms

HIWI2; MIWI2

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Background

PIWIL4 belongs to the Argonaute family of proteins, which function in development and maintenance of germline stem cells (Sasaki et al., 2003 [PubMed 12906857]).[supplied by OMIM, Mar 2008]

Product Information

Description

PIWIL4 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

WT GATCTCAACCAACG*****TAAGTGCAGCTCAG
Mut GATCTCAACCAACG***Deletion***TAAGTGCAGCTCAG
Allele-1: WT

WT TTTTITGCCATTTT*****GTAAGTGCAGCTCA
Mut TTTTITGCCATTTT***Deletion***GTAAGTGCAGCTCA
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and PIWIL4 Knockdown (KD) HeLa cells, using sanger sequencing.