

ZIP14 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50106

Basic Information

Catalog No.

RM50106

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

ZIP14

Species

Human

Gene ID

23516

Swiss Prot

Q15043

Synonyms

HCIN; NET34; ZIP14; cig19; HMNDYT2;
LZT-Hs4

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Background

This gene encodes a member of the the SLC39A family of divalent metal transporters that mediates the cellular uptake of manganese, zinc, iron, and cadmium. The encoded protein contains eight transmembrane domains, a histidine-rich motif, and a metalloprotease motif, and is expressed on the plasma membrane and the endocytic vesicle membrane. It is an important transporter of nontransferrin-bound iron and a critical regulator of manganese homeostasis. Naturally occurring mutations in this gene are associated with neurodegeneration with brain iron accumulation and early-onset parkinsonism-dystonia with hypermanganesemia.

Product Information

Description

ZIP14 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:19bp deletion in exon1

Allele-2:100bp 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°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 CACGCTTCATC*****AGCGCTGCCTC
Mut CACGCTTCATC***Deletion(19bp)***AGCGCTGCCTC
Allele-1: 19bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and ZIP14 knockout (KO) HeLa cells, using sanger sequencing.

WT CATCCCTGGGT*****ACCTGGATGTG
Mut CATCCCTGGGT***Deletion(100bp)***ACCTGGATGTG
Allele-2: 100bp deletion in exon1