

DDIT3 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01990

Basic Information

Catalog No.

RM01990

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

DDIT3

Species

Human

Gene ID

1649

Swiss Prot

P35638

Synonyms

CEBPZ; CHOP; CHOP-10; CHOP10;
GADD153

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Background

This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma. Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified. [provided by RefSeq, Aug 2010]

Product Information

Description

DDIT3 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:7bp deletion in exon1

Allele-2:7bp 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 TGGCTGACTGAGGAGGAGCCAGAACCGCAGAGGTCACAA
Mut TGGCTGACTGAGGAGGAGCC-----GCAGAGGTCACAA
Allele-1: 7bp deletion in exon1

WT TGGCTGACTGAGGAGGAGCCAGAACCGCAGAGGTCACAA
Mut TGGCTGACTGAGGAGGAGCC-----GCAGAGGTCACAA
Allele-2: 7bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and DDIT3 knockout (KO) HeLa cells, using sanger sequencing.