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TCF4 Knockout HCT116 Cell Lysate, Homozygous

Catalog No.: RM02003

Basic Information

Catalog No.

RM02003

Category

Cell Lysate

Parental Cell line

HCT116

Genotype

Knockout

Background

This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016]

Gene Information

Gene Symbol

TCF4

Species

Human

Gene ID

6925

Swiss Prot

P15884

Synonyms

E2-2; FECD3; ITF-2; ITF2; PTHS; SEF-2; SEF2; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; TCF-4; bHLHb19

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Product Information

Description

TCF4 Knockout HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing technology.

Allele-1:exon2 was deleted

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

 ${\bf 1}$ vial parental cell Lysate and ${\bf 1}$ vial knockout cell Lysate

Shipping Conditions

Amount

4°C

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 $1\times$ 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

Mut ATATAAGAATGGAG***Deletion***TCACTTAATGTCAC Allele-1: exon2 was deleted

WT ATATAAGAATGGAG*************TCACTTAATGTCAC
Mut ATATAAGAATGGAG***Deletion***TCACTTAATGTCAC

Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and TCF4 knockout (KO) HCT116 cells, using sanger sequencing.