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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

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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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]

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
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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 ATATAAGAATGGAG**********TCACTTAATGTCAC
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.