

# SMAD3 Knockout HCT116 Cell Lysate, Homozygous

Catalog No.: RM50197

## Basic Information

### Catalog No.

RM50197

### Category

Cell Lysate

### Parental Cell line

HCT116

### Genotype

Knockout

## Gene Information

### Gene Symbol

SMAD3

### Species

Human

### Gene ID

4088

### Swiss Prot

P84022

### Synonyms

HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3

## Contact

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## Background

The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis. [provided by RefSeq, Apr 2009]

## Product Information

### Description

SMAD3 Knockout HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing technology.

Allele-1:68bp deletion in exon3

Allele-2:68bp deletion in exon3

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

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WT    GCTGAACCAGCGCG\*\*\*\*\*GAGCGCTTCTGCCT  
Mut   GCTGAACCAGCGCG\*\*\*Deletion\*\*\*GAGCGCTTCTGCCT  
Allele-1: 68bp deletion in exon3  
  
WT    GCTGAACCAGCGCG\*\*\*\*\*GAGCGCTTCTGCCT  
Mut   GCTGAACCAGCGCG\*\*\*Deletion\*\*\*GAGCGCTTCTGCCT  
Allele-2: 68bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and SMAD3 knockout (KO) HCT116 cells, using sanger sequencing.