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# MSH2 Knockout HeLa Cell Lysate, Homozygous

**Catalog No.: RM02460**

## Basic Information

**Catalog No.**
RM02460

**Category**
Cell Lysate

**Parental Cell line**
HeLa

**Genotype**
Knockout

## Gene Information

**Gene Symbol**
MSH2

**Species**
Human

**Gene ID**
4436

**Swiss Prot**
P43246

**Synonyms**
COCA1; FCC1; HNPCC; HNPCC1; LCFS2

## Contact


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## Background

This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

## Product Information

**Description**
MSH2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:67bp 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℃

**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 AGCTTCCATTGGTG**********ACAGAGGAAACTAG
Mut AGCTTCCATTGGTG***Deletion***ACAGAGGAAACTAG
Allele-1: 67bp deletion in exon3

WT AGCTTCCATTGGTG**********CAGAGGAAACTAGG
Mut AGCTTCCATTGGTG***Deletion***CAGAGGAAACTAGG
Allele-2: 68bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and MSH2 knockout (KO) HeLa cells, using sanger sequencing.



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