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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

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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
Lysate is stable for 12 months when stored at -20℃. 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 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.