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MLH1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02458

Basic Information

Catalog No.
RM02458

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
MLH1

Species
Human

Gene ID
4292

Swiss Prot
P40692

Synonyms
COCA2; FCC2; HNPCC; HNPCC2; hMLH1

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Background

This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). It is a human homolog of the E. coli DNA mismatch repair gene mutL, consistent with the characteristic alterations in microsatellite sequences (RER+phenotype) found in HNPCC. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described, but their full-length natures have not been determined.[provided by RefSeq, Nov 2009]

Product Information

Description
MLH1 Knockout HeLa Cell Line is engineered from HeLa 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℃

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 GTTCACTTCCTGCA**********GGATGTACTTCACC
Mut GTTCACTTCCTGCA***Deletion***GGATGTACTTCACC
Allele-1: 68bp deletion in exon3

WT GTTCACTTCCTGCA**********GGATGTACTTCACC
Mut GTTCACTTCCTGCA***Deletion***GGATGTACTTCACC
Allele-2: 68bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and MLH1 knockout (KO) HeLa cells, using sanger sequencing.

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