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MSH6 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02466

Basic Information

Catalog No.
RM02466

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
MSH6

Species
Human

Gene ID
2956

Swiss Prot
P52701

Synonyms
GTBP; GTMBP; HNPCC5; HSAP; p160

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Background

This gene encodes a member of the DNA mismatch repair MutS family. In E. coli, the MutS protein helps in the recognition of mismatched nucleotides prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein heterodimerizes with MSH2 to form a mismatch recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described. [provided by RefSeq, Jul 2013]

Product Information

Description
MSH6 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:106bp deletion in exon4
Allele-2:106bp deletion in exon4
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

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WT    TCCCAAGCCCACGT**************CACCCCGATTTTGA
Mut   TCCCAAGCCCACGT***Deletion***CACCCCGATTTTGA
Allele-1: 106bp deletion  in exon4

WT    TCCCAAGCCCACGT**************CACCCCGATTTTGA
Mut   TCCCAAGCCCACGT***Deletion***CACCCCGATTTTGA
Allele-2: 106bp deletion  in exon4
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Genome sequence analysis of PCR products from parental (WT) and MSH6 knockout (KO) 293T cells, using sanger sequencing.