

PMS2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02476

Basic Information

Catalog No.

RM02476

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

PMS2

Species

Human

Gene ID

5395

Swiss Prot

P54278

Synonyms

HNPCC4; MLH4; PMS2CL; PMSL2

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Background

The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein forms heterodimers with the gene product of the mutL homolog 1 (MLH1) gene to form the MutL-alpha heterodimer. The MutL-alpha heterodimer possesses an endonucleolytic activity that is activated following recognition of mismatches and insertion/deletion loops by the MutS-alpha and MutS-beta heterodimers, and is necessary for removal of the mismatched DNA. There is a DQHA(X)2E(X)4E motif found at the C-terminus of the protein encoded by this gene that forms part of the active site of the nuclease. Mutations in this gene have been associated with hereditary nonpolyposis colorectal cancer (HNPCC; also known as Lynch syndrome) and Turcot syndrome. [provided by RefSeq, Apr 2016]

Product Information

Description

PMS2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:106bp deletion in exon6

Allele-2:107bp deletion in exon6

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

WT AAAATGGTCCAGGT*****ATAAGGAAATAT
Mut AAAATGGTCCAGGT***Deletion***ATAAGGAAATAT
Allele-1: 106bp deletion in exon6

WT AAAATGGTCCAGGT*****TAAAGGAAATATC
Mut AAAATGGTCCAGGT***Deletion***TAAAGGAAATATC
Allele-2: 107bp deletion in exon6

Genome sequence analysis of PCR products from parental (WT) and PMS2 knockout (KO) HeLa cells, using sanger sequencing.