

Recombinant Human MSH2 293 Cell Lysate

Cat. No. MSH2-4120HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) (MSH2) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

MSH2 mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) [Homo sapiens]

Official Symbol

MSH2

Synonyms

MSH2; mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli); COCA1, mutS (E. coli) homolog 2 (colon cancer, nonpolyposis type 1); DNA mismatch repair protein Msh2; HNPCC; HNPCC1; hMSH2; FCC1; COCA1; LCFS2;

Gene ID

4436

mRNA Refseq

NM_000251

Protein Refseq

NP_000242

MIM

609309

UniProt ID

P43246

**Chromosome
Location**

2p21

Pathway

BRCA1-associated genome surveillance complex (BASC), organism-specific biosystem; Colorectal cancer, organism-specific biosystem; Colorectal cancer, conserved biosystem; Direct p53 effectors, organism-specific biosystem; Mismatch repair, organism-specific biosystem; Mismatch repair, conserved biosystem;

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Pathways in cancer, organism-specific biosystem;

Function

contributes_to ADP binding; contributes_to ATP binding; contributes_to ATPase activity; DNA binding; DNA-dependent ATPase activity; contributes_to MutLalpha complex binding; Y-form DNA binding; centromeric DNA binding; damaged DNA binding; contributes_to dinucleotide insertion or deletion binding; contributes_to dinucleotide repeat insertion binding; double-strand/single-strand DNA junction binding; contributes_to double-stranded DNA binding; enzyme binding; contributes_to four-way junction DNA binding; contributes_to guanine/thymine mispair binding; guanine/thymine mispair binding; loop DNA binding; contributes_to magnesium ion binding; contributes_to mismatched DNA binding; nucleotide binding; contributes_to oxidized purine DNA binding; protein C-terminus binding; protein binding; contributes_to protein binding; protein homodimerization activity; protein kinase binding; contributes_to single guanine insertion binding; contributes_to single thymine insertion binding; contributes_to single-stranded DNA binding;

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