

Recombinant Human MSH2

Cat. No. MSH2-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

ProteinLength 735-934 a.a.

ProductOverview RecombinantHuman MSH2 protein expressed in E.coli encodes amino acids 735-934.

Description MSH2 (MutS homologue 2) is a 100-kDaprotein involved in mismatched nucleotides during DNA replication or repairprocess. MSH2 functions as one of the four major DNA mismatch repair genesalong with MLH1, PMS2 and PMS1. Somatic mutations in the human MSH2 genecontribute to the development of sporadic colorectal carcinomas whilegermline mutations are involved in a large number of colorectal carcinoma.

Formulation Recombinant Human MSH2 protein at 100µg/mlin 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

ApplicationAnd Suggested Dilutions •ELISA •Inhibition Assays •Western Blotting

Characterization MSH2 Antibody reactive.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage & Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

GENE INFORMATION

Gene Name	MSH2mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) [Homo sapiens]
Synonyms	MSH2;mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli); FCC1; COCA1;HNPCC; LCFS2; HNPCC1; mutS homolog 2; mutS (E. coli) homolog 2 (colon cancer,nonpolyposis type 1); DNA mismatch repair protein Msh2; MutS protein homolog2
Gene ID	4436
mRNA Refseq	NM_000251
Protein Refseq	NP_000242
MIM	609309
UniProt ID	P43246
Chromosome Location	2p21
Pathway	Colorectal cancer; Mismatch repair; Pathways in cancer
Function	ADP binding; ATP binding; ATPase activity; MutLalpha complex binding; centromeric DNA binding; damaged DNA binding; dinucleotide repeat insertion binding; four-way junction DNA binding; guanine/thymine mispair binding; magnesium ion binding; nucleotide binding; oxidized purine DNA binding; protein C-terminus

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binding;protein homodimerization activity; single guanine insertion binding;
singlethymine insertion binding; single-stranded DNA binding

PDB rendering
basedon 2o8b.

