Recombinant Human MSH2 protein, MYC/DDK-tagged

Cat. No. MSH2-493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MSH2 fused with MYC/DDK tag at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
Description	This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	104.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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

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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; 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

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