

Recombinant Human MSH2

Cat. No. MSH2-28793TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 835-934 of Human MSH2 with an N terminal proprietary tag; Predicted MWt 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	MSH2 was identified as a locus 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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Ubiquitously expressed.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequences of amino acids	NFPKHVIECAKQKALELEEFQYIGESQGYDIMEPAAKKCYLEREQGEKIIQEFLSKVK QMPFTEMSEENITIKLKQLKAEVIAKNNSEVNEIISRIKVT
Sequence Similarities	Belongs to the DNA mismatch repair mutS family.
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;
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;

Function

contributes_to ADP binding; contributes_to ATP binding; contributes_to ATPase activity; DNA binding; DNA-dependent ATPase activity;

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