

Recombinant Human MSH6, GST-tagged

Cat. No. MSH6-2414H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MSH6(931 a.a. - 1030 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
ProteinLength	931-1030 aa
Description	This gene encodes a member of the DNA mismatch repair MutS family. In E. coli, the MutS protein helps in the recognition of mismatched nucleotides prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein heterodimerizes with MSH2 to form a mismatch recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described.
Molecular Mass	36.74 kDa
AA Sequence	AGFDSYDQALADIRENEQSLLEYLEKQRNRIGCRTIVYWGIGRNRNYQLEIPENFTTR NLPEEYELKSTKKGCKR YWTKTIEKLANLINAEERRDVS LK
Applications	ELISA; WB-Re; AP; Array

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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	MSH6 mutS homolog 6 [Homo sapiens (human)]
Official Symbol	MSH6
Synonyms	MSH6; GTBP; HSAP; p160; GTMBP; HNPCC5; mutS homolog 6; DNA mismatch repair protein Msh6; sperm-associated protein; mutS-alpha 160 kDa subunit; G/T mismatch-binding protein
Gene ID	2956
mRNA Refseq	NM_000179
Protein Refseq	NP_000170
MIM	600678
UniProt ID	P52701
Chromosome Location	2p16
Pathway	BRCA1-associated genome surveillance complex (BASC); Colorectal cancer; Mismatch repair

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Function

contributes_to ADP binding; contributes_to ATPase activity; contributes_to MutLalpha complex binding

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