

Recombinant Human MSH6 293 Cell Lysate

Cat. No. MSH6-4117HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for mutS homolog 6 (E. coli) (MSH6) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	MSH6 mutS homolog 6 (E. coli) [Homo sapiens]
Official Symbol	MSH6
Synonyms	MSH6; mutS homolog 6 (E. coli); GTBP, mutS (E. coli) homolog 6; DNA mismatch repair protein Msh6; p160; GTMBP; hMSH6; sperm-associated protein; mutS-alpha 160 kDa subunit; G/T mismatch-binding protein; GTBP; HSAP; HNPCC5;
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), organism-specific biosystem; Colorectal cancer, organism-specific biosystem; Colorectal cancer, conserved 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

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activity; DNA-dependent ATPase activity; contributes_to MutLalpha complex binding; chromatin binding; damaged DNA binding; contributes_to double-stranded DNA binding; contributes_to four-way junction DNA binding; contributes_to guanine/thymine mispair binding; contributes_to magnesium ion binding; contributes_to mismatched DNA binding; nucleotide binding; contributes_to oxidized purine DNA binding; protein binding; contributes_to protein binding; NOT protein homodimerization activity; contributes_to single guanine insertion binding; contributes_to single thymine insertion binding;

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