

Recombinant Human MLH1 Protein, GST-tagged

Cat. No. MLH1-5385H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MLH1 full-length ORF (AAH06850, 1 a.a. - 756 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). It is a human homolog of the E. coli DNA mismatch repair gene mutL, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Alternatively spliced transcript variants encoding different isoforms have been described, but their full-length natures have not been determined. [provided by RefSeq]
Molecular Mass	108.9 kDa
AA Sequence	MSFVAGVIRRLDETVDNRNIAAGEVIQRPANAIKEMIENCLDAKSTSIQVIVKEGGLKLIQ IQDNGTGIRKEDLDIVCERFTTSKLQSFEDLASISTYGFRGEALASISHVAHVTTITTKTA DGKCAIRASYSDGKLKAPPKPCAGNQGTQITVEDLFYNIATRRKALKNPSEYGGKIL EVLGRYSVHNAGISFSVKKQGETVADVRTLPNASTVDNIRSIFGNVSRRELIEIGCED KTAFKMNGYISNANYSVKKCIFLLFINHRLVESTSLRKAIVTVYAAALPKNTHPFLYLS LEISPQNVDVNVHPTKHEVHFLHEESILERVQQHIESKLLGSNSSRMYFTQTLLPGLA GPSGEMVKSTTSLTSSSTSGSSDKVYAHQMVRTDSREQKLDAFLQPLSKPLSSQPQ AIVTEDKTDISSGRARQQDEEMLELPAPAEVAAKNQSLEGDTTKGTSEMSEKRGPT

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SSNPRKRHREDSVEMVEDDSRKEMTAACP RRRRIINLTSVLSLQEEINEQGHEVLR
 EMLHNHSFVGCVNPQWALAQHQTKLYLLNTTKLSEELFYQILIYDFANFGVLRRLSEP
 APLFDLAMLALDSPESGWTEEDGPKKEGLAEYIVEFLKKKAEMLADYFSLEIDEEGNLI
 GLPLLIDNYVPPLEGLPIFILRLATEVNWDEEKECFESLSKECAMFY SIRKQYISEESTL
 SGQQSEVPGSIPNSWKWTVEHIVYKALRSHILPPKHFTEDGNILQLANLPDLYKVFER
 C

Applications

Antibody Production
 Functional Study
 Compound Screening

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. 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

MLH1 mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) [Homo sapiens]

Official Symbol

MLH1

Synonyms

MLH1; mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli); COCA2, mutL (E. coli) homolog 1 (colon cancer, nonpolyposis type 2); DNA mismatch repair protein Mlh1; FCC2; HNPCC; HNPCC2; COCA2; hMLH1; MGC5172;

Gene ID

4292

mRNA Refseq

NM_000249

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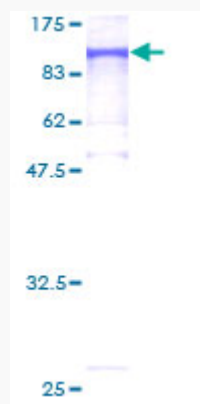
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Protein Refseq NP_000240

MIM 120436

UniProt ID P40692

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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