# Recombinant Human MUTYH 293 Cell Lysate

**Cat. No.** MUTYH-4052HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for mutY homolog (E. coli) (MUTYH), transcript variant beta3 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

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| **Gene Name** | MUTYH mutY homolog (E. coli) [ Homo sapiens ] |
| **Official Symbol** | MUTYH |
| **Synonyms** | MUTYH; mutY homolog (E. coli); mutY (E. coli) homolog; A/G-specific adenine DNA glycosylase; MYH; CYP2C; MGC4416; |
| **Gene ID** | 4595 |
| **mRNA Refseq** | NM_001048171 |
| **Protein Refseq** | NP_001041636 |
| **MIM** | 604933 |
| **UniProt ID** | Q9UIF7 |
| **Chromosome Location** | 1p34.1 |
| **Pathway** | Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Base-Excision Repair, AP Site Formation, organism-specific biosystem; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway, organism-specific biosystem; Cleavage of the damaged purine, organism-specific biosystem; DNA Repair, organism-specific biosystem; |

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| **Function** | 4 iron, 4 sulfur cluster binding; NOT MutLalpha complex binding; NOT MutLbeta complex binding; MutSalpha complex binding; NOT MutSbeta complex binding; catalytic activity; endonuclease activity; hydrolase activity, acting on glycosyl bonds; metal ion binding; protein binding; |

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