

Recombinant Full Length Human MUTYH Protein, GST-tagged

Cat. No. MUTYH-6582HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MUTYH full-length ORF (NP_001041636.1, 1 a.a. - 535 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	535 amino acids
Description	This gene encodes a DNA glycosylase involved in oxidative DNA damage repair. The enzyme excises adenine bases from the DNA backbone at sites where adenine is inappropriately paired with guanine, cytosine, or 8-oxo-7,8-dihydroguanine, a major oxidatively damaged DNA lesion. The protein is localized to the nucleus and mitochondria. Mutations in this gene result in heritable predisposition to colon and stomach cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Molecular Mass	85.5 kDa
AA Sequence	MTPLVSRLSRLWAIMRKPRAAVGSQHRKQAASQEGRQKHAKNNSQAKPSACDGLA RQPEEVVLQASVSSYHLFRDVAEVTAFRGSLLSWYDQEKRDLPWRRRAEDEMDLD RRAYAVVWSEVMLQQTQVATVINYYTGWMQKWPTLQDLASASLEEVLWAGLG YYSRGRRLQEGARKVVEELGGHMPRTAETLQQLPGVGRYTAGAIAASIAFGQATGV VDGNVARVLCRVRAIGADPSSTLVSQQLWGLAQQLVDPARPGDFNQAAMELGATV CTPQRPLCSQCPVESLCRARQRVEQEQLLASGSLSGSPDVEECAPNTGQCHLCLP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PSEPWDQTLGVVNFPRKASRKPPREESSATCVLEQPGALGAQILLVQRPNSGLLAG
 LWEFPSVTWEPSEQLQRKALLQELQRWAGPLPATHLRHLGEVVHTFSHIKLTYYQVY
 GLALEGQTPVTTVPPGARWLTQEEFHAAVSTAMKKVFRVYQGGQPPGTCMGSKRS
 QVSSPCSRKKPRMGQQVLDNFFRSHISTDAHSLNSAAQ

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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	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

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MIM	604933
UniProt ID	Q9UIF7

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