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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

DUT (Human) Recombinant Protein (P01)

Catalog Number: H00001854-P01

Regulation Status: For research use only (RUO)

Product Description: Human DUT full-length ORF (NP_001020419.1, 1 a.a. - 252 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:
MTPLCPRPALCYHFLTSLLRSAMQNARGARQRAEAAV
LSGPGPPLGRAAQHGIPRPLSSAGRLSQGCRGASTV
GAAGWKGELPKAGGSPAPGPETPAISPSKRARPAEV
GGMQLRFARLSEHATAPTRGSARAAGYDLYSAYDYTI
PPMEKAVVKTDIQIALPSGCYGRVAPRSGLAAKHFIDV
GAGVIDEDYRGNVGVVLFNFGKEKFEVKKGDRIAQLIC
ERIFYPEIEEVQALDDTERGSGGFGSTGKN

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 53

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Preparation Method: *in vitro* wheat germ expression system

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1854

Gene Symbol: DUT

Gene Alias: FLJ20622, dUTPase

Gene Summary: This gene encodes an essential enzyme of nucleotide metabolism. The encoded protein forms a ubiquitous, homotetrameric enzyme that hydrolyzes dUTP to dUMP and pyrophosphate. This reaction serves two cellular purposes: providing a precursor (dUMP) for the synthesis of thymine nucleotides needed for DNA replication, and limiting intracellular pools of dUTP. Elevated levels of dUTP lead to increased incorporation of uracil into DNA, which induces extensive excision repair mediated by uracil glycosylase. This repair process, resulting in the removal and reincorporation of dUTP, is self-defeating and leads to DNA fragmentation and cell death. Alternative splicing of this gene leads to different isoforms that localize to either the mitochondrion or nucleus. A related pseudogene is located on chromosome 19. [provided by RefSeq]