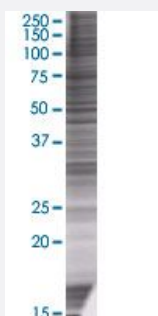


DUT 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00001854-T01

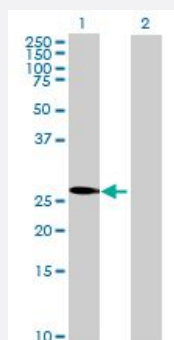
Size 100 uL

Applications



SDS-PAGE Gel

DUT transfected lysate.



Western Blot

Lane 1: DUT transfected lysate (26.6 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-DUT full-length

Host Human

Theoretical MW (kDa) 26.6

Quality Control Testing Transient overexpression cell lysate was tested with Anti-DUT antibody ([H00001854-B01](#)) by Western Blots.
 SDS-PAGE Gel
 DUT transfected lysate.
 Western Blot
 Lane 1: DUT transfected lysate (26.6 KDa)
 Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

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

Applications

- Western Blot

Gene Info — DUT

Entrez GeneID[1854](#)**GeneBank Accession#**[NM_001025248](#)**Protein Accession#**[NP_001020419](#)**Gene Name**

DUT

Gene Alias

FLJ20622, dUTPase

Gene Description

deoxyuridine triphosphatase

Omim ID[601266](#)**Gene Ontology**[Hyperlink](#)**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]

Other Designations

dUTP nucleotidohydrolase|dUTP pyrophosphatase|deoxyuridine 5'-triphosphate nucleotidohydrolase

Pathway

- [Metabolic pathways](#)

- [Pyrimidine metabolism](#)

Disease

- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)