

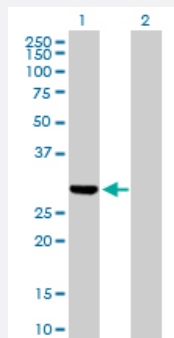
MaxPab®

DUT purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00001854-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of DUT expression in transfected 293T cell line ([H00001854-T01](#)) by DUT MaxPab polyclonal antibody.

Lane 1: DUT transfected lysate(26.60 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human DUT protein.

Immunogen

DUT (NP_001020419.1, 1 a.a. ~ 252 a.a) full-length human protein.

Sequence

MTPLCPRPALCYHFLTSLLRSA MQNARGARQRAEAAVLSGPGPPLGRAAQHGIPRLSSAGRLS
QGCRGASTVGAAGWK GELPKAGGSPAPGPETPAISPSKRARPAEVGGMQLRFARLSEHATAPT
RGSARAAGYDLYSAYDYTI PPMEKAVVKTDIQIALPSGCYGRVAPRSGLAAKHFIDVGAGVIDEDYR
GNVGVVLFNFGKEKFEVKKGDRIAQLICERIFYPEIEEVQALDDTERGSGGFGSTGKN

Host

Rabbit

Reactivity

Human

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — DUT

Entrez GeneID [1854](#)

GeneBank Accession# [NM_001025248](#)

Protein Accession# [NP_001020419.1](#)

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](#)