

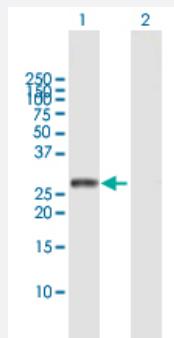
MaxPab®

DUT MaxPab rabbit polyclonal antibody (D01)

Catalog # H00001854-D01

Size 100 uL

Applications

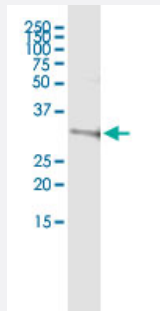


Western Blot (Transfected lysate)

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.



Immunoprecipitation

Immunoprecipitation of DUT transfected lysate using anti-DUT MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with DUT purified MaxPab mouse polyclonal antibody (B01P) ([H00001854-B01P](#)).

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 PPMEKAVVKTDIQIALPSGCYGRVAPRSGLAAKH FIDVGAGVIDEDYR GNVG VVLFNFGKEKFEVKKGDRIAQLICERIFYPEIEEVQALDDTERGSGGFGSTGKN
Host	Rabbit
Reactivity	Human

Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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[Protocol Download](#)

- Immunoprecipitation

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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](#)