



## Rabbit Anti-DUT antibody

SL6584R

<b>Product Name:</b>	DUT
<b>Chinese Name:</b>	脱氧尿苷三磷酸酶DUT抗体
<b>Alias:</b>	DUT-N; mitochondrial; Deoxyuridine 5' triphosphate nucleotidohydrolase, nuclear isoform; Deoxyuridine 5"-triphosphate nucleotidohydrolase; Deoxyuridine triphosphatase; dut; DUT_HUMAN; dUTP nucleotidohydrolase; dUTP pyrophosphatase; dUTPase; FLJ20622.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	19kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human DUT:191-237/252
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This enzyme is involved in nucleotide metabolism: it produces dUMP, the immediate precursor of thymidine nucleotides and it decreases the intracellular concentration of dUTP so that uracil cannot be incorporated into DNA.

**Function:**

This enzyme is involved in nucleotide metabolism: it produces dUMP, the immediate precursor of thymidine nucleotides and it decreases the intracellular concentration of dUTP so that uracil cannot be incorporated into DNA.

**Subunit:**

Homotrimer.

**Subcellular Location:**

Isoform 2: Nucleus.

Isoform 3: Mitochondrion.

**Tissue Specificity:**

Found in a variety of tissues. Isoform 3 expression is constitutive, while isoform 2 expression correlates with the onset of DNA replication (at protein level). Isoform 2 degradation coincides with the cessation of nuclear DNA replication (at protein level).

**Post-translational modifications:**

Nuclear isoform 2 is phosphorylated in vivo on Ser-11, a reaction that can be catalyzed in vitro by CDC2. Phosphorylation in mature T-cells occurs in a cell cycle-dependent manner. Isoform 3 is not phosphorylated.

The initiator methionine is cleaved in isoform 2.

**Similarity:**

Belongs to the dUTPase family.

**SWISS:**

P33316

**Gene ID:**

1854

**Database links:**

[Entrez Gene: 1854](#)Human

[Entrez Gene: 110074](#)Mouse

[Entrez Gene: 497778](#)Rat

[Oimim: 601266](#)Human

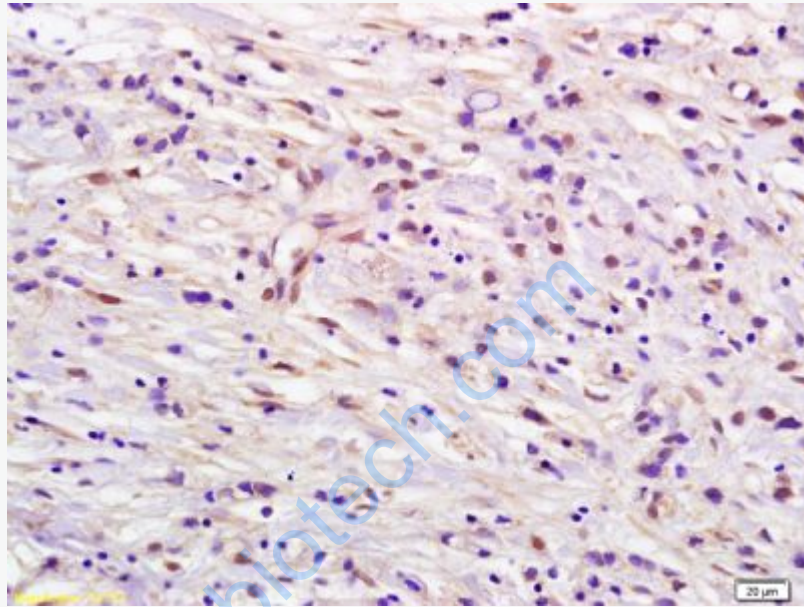
[SwissProt: P33316](#)Human

[SwissProt: P70583](#)Rat

[Unigene: 527980](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-DUT Polyclonal Antibody, Unconjugated(SL6584R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining