

DUT / DUTPase Antibody (aa1-52)
Chicken Polyclonal Antibody
Catalog # ALS11544**Specification**

DUT / DUTPase Antibody (aa1-52) - Product Information

Application	IHC
Primary Accession	P33316
Reactivity	Human
Host	Chicken
Clonality	Polyclonal
Calculated MW	27kDa KDa

DUT / DUTPase Antibody (aa1-52) - Additional Information**Gene ID** 1854**Other Names**

Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial, dUTPase, 3.6.1.23, dUTP pyrophosphatase, DUT

Target/Specificity

Amino acids 1-52 of human DUT

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

DUT / DUTPase Antibody (aa1-52) is for research use only and not for use in diagnostic or therapeutic procedures.

DUT / DUTPase Antibody (aa1-52) - Protein Information**Name** DUT**Function**

Catalyzes the cleavage of 2'-deoxyuridine 5'-triphosphate (dUTP) into 2'-deoxyuridine 5'-monophosphate (dUMP) and inorganic pyrophosphate and through its action efficiently prevents uracil misincorporation into DNA and at the same time provides dUMP, the substrate for de novo thymidylate biosynthesis (PubMed: [17880943](http://www.uniprot.org/citations/17880943), PubMed: [8631816](http://www.uniprot.org/citations/8631816), PubMed: [8805593](http://www.uniprot.org/citations/8805593)). Inhibits peroxisome proliferator-activated receptor (PPAR) activity by binding of its N-terminal to PPAR, preventing the latter's dimerization with retinoid X receptor (By similarity). Essential for embryonic development (By similarity).

Cellular Location

[Isoform 2]: Nucleus

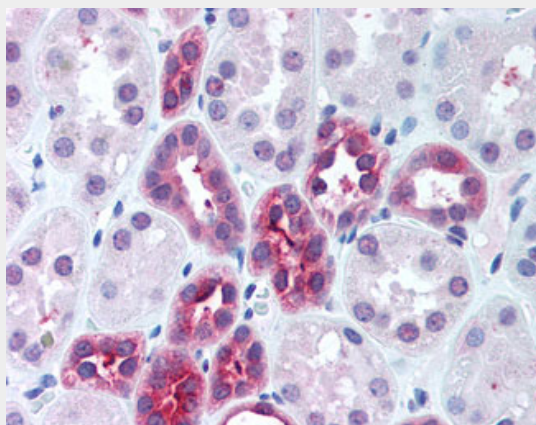
Tissue Location

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)

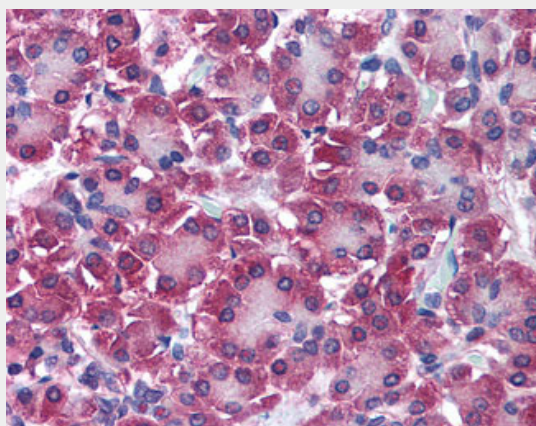
DUT / DUTPase Antibody (aa1-52) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DUT / DUTPase Antibody (aa1-52) - Images

Anti-DUT antibody IHC of human kidney.



Anti-DUT antibody IHC of human pancreas.

DUT / DUTPase Antibody (aa1-52) - Background

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.

DUT / DUTPase Antibody (aa1-52) - References

Ladner R.D.,et al.J. Biol. Chem. 271:7745-7751(1996).

Cohen D.,et al.Genomics 40:213-215(1997).

Pearlman R.E.,et al.Submitted (OCT-1997) to the EMBL/GenBank/DDBJ databases.

Ladner R.D.,et al.J. Biol. Chem. 272:19072-19080(1997).

Chano T.,et al.Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.