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# 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:<a href="http://www.uniprot.org/citations/17880943" target="_blank">17880943</a>, PubMed:<a href="http://www.uniprot.org/citations/8631816" target="_blank">8631816</a>, PubMed:<a href="http://www.uniprot.org/citations/8805593" target="_blank">8805593</a>). 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

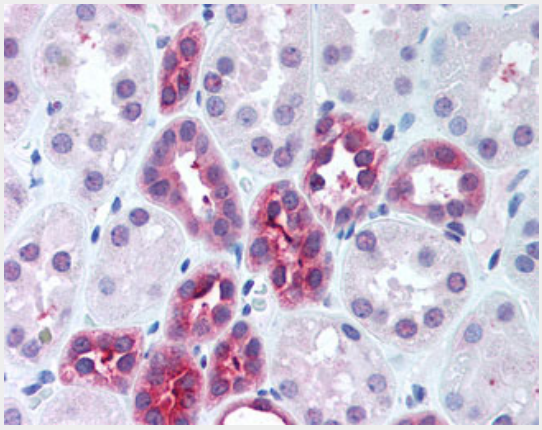
**Tissue Location**
Found in a variety of tissues. Isoform 3 expression is constitutive, while isoform 2 expression correlates with the onset of DNA replication (at protein level). Isoform 2 degradation coincides with the cessation of nuclear DNA replication (at protein level)

## DUT / DUTPase Antibody (aa1-52) - Protocols

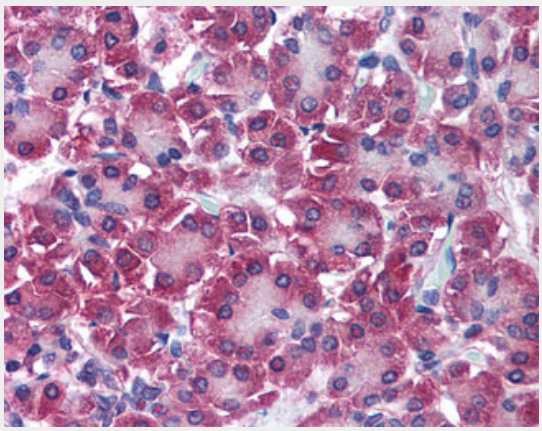
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.