

## Rabbit DUT Polyclonal Antibody | anti-DUT antibody

DUT Polyclonal Antibody

|                               |                       |                                        |                                                                               |
|-------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA177604</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

DUT; Polyclonal Antibody; DUT Polyclonal Antibody; dUTPase; anti-DUT antibody

### PRODUCT SPECIFICATIONS

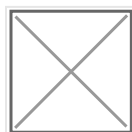
|                                               |                                                                        |
|-----------------------------------------------|------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                 |
| Reactivity                                    | Human, Mouse, Rat                                                      |
| Clonality                                     | Polyclonal                                                             |
| Isotype                                       | IgG                                                                    |
| Purity/Purification                           | Affinity purification                                                  |
| Form/Format                                   | PBS with 0.02% sodium azide, 50% glycerol, pH7.3                       |
| Concentration                                 | 1mg/mL (varies by lot)                                                 |
| Applicable Applications for anti-DUT antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                     | Recombinant fusion protein of human DUT (NP_0010204191)                |
| Conjugation                                   | Unconjugated                                                           |
| Preparation and Storage                       | Store at -20 degree C. Avoid freeze/thaw cycles.                       |

### IMAGES



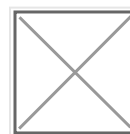
#### IF (Immunofluorescence)

Immunofluorescence analysis of U-2 OS cells using DUT Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



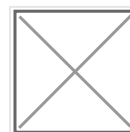
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human liver cancer using DUT Polyclonal Antibody at dilution of 1:100 (40x lens).



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human appendix using DUT Polyclonal Antibody at dilution of 1:100 (40x lens).



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Rat spleen using DUT Polyclonal Antibody at dilution of 1:100 (40x lens).



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines using DUT Polyclonal Antibody at dilution of 1:1000.

### ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-DUT antibody | 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. |
| Product Categories/Family for anti-DUT antibody   | Epigenetics and Nuclear Signaling; Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 347595814                                                                                                       |
| NCBI GeneID                      | 1854                                                                                                            |
| UniProt Accession #              | P33316; O14785; Q16708; Q16860; Q6FHN1; Q6NSA3; Q96Q81; A8K650; B4DPR5                                          |
| Molecular Weight                 | 252                                                                                                             |
| NCBI Official Full Name          | Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial                                                 |
| NCBI Official Synonym Full Names | deoxyuridine triphosphatase                                                                                     |
| NCBI Official Symbol             | DUT                                                                                                             |
| NCBI Official Synonym Symbols    | dUTPase                                                                                                         |
| NCBI Protein Information         | deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial; dUTP pyrophosphatase; dUTP nucleotidohydrolase |
| UniProt Protein Name             | Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial                                                 |
| UniProt Gene Name                | <b>DUT</b>                                                                                                      |
| UniProt Synonym Gene Names       | dUTPase                                                                                                         |
| UniProt Entry Name               | DUT_HUMAN                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dut-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/177604>