

DUT Antibody
Rabbit mAb
Catalog # AP93154

Specification

DUT Antibody - Product Information

| | |
|---|------------------------|
| Application | WB, FC, ICC |
| Primary Accession | P33316 |
| Clonality | Monoclonal |
| Other Names | |
| dut; dUTP nucleotidohydrolase; dUTP pyrophosphatase; dUTPase; | |

| | |
|---------------|------------|
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 26563 Da |

DUT Antibody - Additional Information

| | |
|------------------------------|---|
| Dilution | WB~~1:1000 FC~~1:10~50 ICC~~N/A |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human DUT |
| Description | 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. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

DUT Antibody - 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](http://www.uniprot.org/citations/17880943)>, PubMed:<[a href="http://www.uniprot.org/citations/8631816" target="_blank">8631816](http://www.uniprot.org/citations/8631816)>, PubMed:<[a href="http://www.uniprot.org/citations/8805593" target="_blank">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

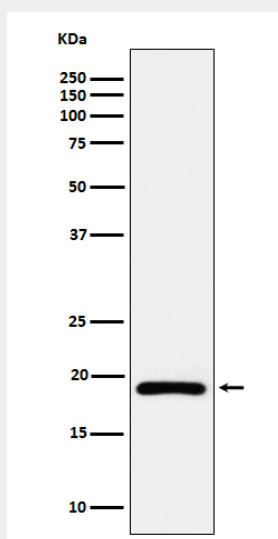
Tissue Location

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 Antibody - 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 Antibody - Images

Western blot analysis of DUT expression in Ramos cell lysate.