

**Goat Anti-dUTPase / DUT Antibody (internal region)**  
**Purified Goat Polyclonal Antibody**  
**Catalog # AF4249a****Specification**

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**Goat Anti-dUTPase / DUT Antibody (internal region) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P33316</a>
Other Accession	<a href="#">NP_001020419.1</a> , <a href="#">NP_001939.1</a> , <a href="#">NP_001020420.1</a>
Reactivity	Human
Predicted	Human, Pig
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	26563

**Goat Anti-dUTPase / DUT Antibody (internal region) - Additional Information****Gene ID** 1854**Other Names**

DUT; deoxyuridine triphosphatase; dUTPase; dUTP nucleotidohydrolase; dUTP pyrophosphatase; deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial

**Dilution**

WB~~1:1000

E~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**Peptide with sequence C-QLRFARLSEHATAPT, from the internal region of the protein sequence according to [NP\\_001020419.1](#); [NP\\_001939.1](#); [NP\\_001020420.1](#).**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-dUTPase / DUT Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-dUTPase / DUT Antibody (internal region) - 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)

**Goat Anti-dUTPase / DUT Antibody (internal region) - 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](#)

**Goat Anti-dUTPase / DUT Antibody (internal region) - Images**

AF4249a (0.1 µg/ml) staining of HEK293 (A) and HeLa (B) lysates (35 µg protein in RIPA buffer).

Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-dUTPase / DUT Antibody (internal region) - References**

Kinetic mechanism of human dUTPase, an essential nucleotide pyrophosphatase enzyme. Tóth J, Varga B, Kovács M, Málnási-Csizmadia A, Vértessy BG. The Journal of biological chemistry 2007 Nov 282 (46): 33572-82.