

Goat Anti-dUTPase / DUT Antibody (internal region)

Purified Goat Polyclonal Antibody Catalog # AF4249a

Specification

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

Application WB, E
Primary Accession P33316

Other Accession <u>NP_001020419.1</u>, <u>NP_001939.1</u>,

NP 001020420.1

Reactivity
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; dUTP ase; 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, PubMed:8631816, PubMed:8805593, PubMed: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

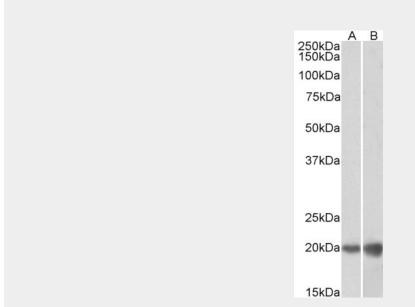
Found in a variety of tissues. Isoform 3 expression is constitutive, while isoform 2 expression correlates with the onset of DNA replication (at protein level). Isoform 2 degradation coincides with the cessation of nuclear DNA replication (at protein level)

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
- <u>Immunoprecipitation</u>
- Flow Cytomety
- 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.