

## Product datasheet for **AP23256PU-N**

### DUT Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	Western blot: At 0.5-1µg/ml with the appropriate system to detect dUTPase in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect dUTPase in formalin fixed and paraffin embedded tissues. Boiling the sections is required. Immunoprecipitation.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence mapping at the middle region of human dUTPase
Specificity:	This antibody detects DUT in the middle. No cross reactivity with other roteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg himerosal, 0.05mg NaN <sub>3</sub> State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	deoxyuridine triphosphatase
Database Link:	<a href="#">Entrez Gene 110074 Mouse</a> <a href="#">Entrez Gene 497778 Rat</a> <a href="#">Entrez Gene 1854 Human P33316</a>



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**Background:**

Deoxyuridine triphosphate nucleotidohydrolase (dUTPase) is responsible for maintaining low intracellular levels of dUTP, thus preventing the incorporation of dUTP into DNA. DUTPase activity/expression can be down-regulated using siRNA specifically targeted to dUTPase mRNA and UTPase plays a role in DNA nucleotide metabolism. This protein, present predominantly in the cytoplasm, contains 252 amino acids with a Mr of 26,704. It exhibits 35% identity with the E. coli UTPase and 53% identity with the Saccharomyces cerevisiae enzyme. The nuclear and mitochondrial forms of dUTPase are encoded by the same gene with isoform-specific transcripts arising through the use of alternative 5-prime exons. Human dUTPase exhibits 92% identity with rat. Moreover, this enzyme has profound effects on the efficacy of agents that target thymidylate biosynthesis.

**Synonyms:**

dUTPase, dUTP pyrophosphatase

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Metabolic pathways, Pyrimidine metabolism

**Product images:**

Immunohistochemical analysis of paraffin embedded rat tissue sections (cardiac muscle), staining DUTPase in cytoplasm, DAB chromogenic reaction