

Product datasheet for AP23256PU-N

OriGene Technologies, Inc.

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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 Na2HPO4, 0.05mg himerosal, 0.05mg NaN3

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: Entrez Gene 110074 MouseEntrez Gene 497778 RatEntrez Gene 1854 Human

P33316





Background:

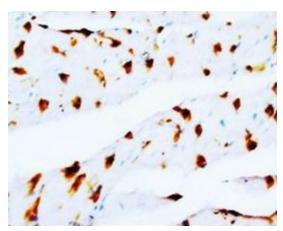
Deoxyuridine triphosphate nucleotidohydrolase (dUTPase) is responsible for maintaining low ntracellular levels of dUTP, thus preventing the incorporation of dUTP into DNA. DUTPase ctivity/expression can be down-regulated using siRNA specifically targeted to dUTPase mRNA and UTPase plays a role in DNA nucleotide metabolism. This protein, present predominantly in the ytoplasm, 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 orms of dUTPase are encoded by the same gene with isoform-specific transcripts arising through the se of alternative 5-prime exons. Human dUTPase exhibits 92% identity with rat. Moreover, this nzyme 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