



Product Information Sheet

Polyclonal Anti-dUTP pyrophosphatase, dUTPase (Magnetic Bead Conjugate)

Catalogue No. PA1030-M	Immunogen A synthetic peptide corresponding to a sequence mapping at the middle region of human dUTPase, identical to the related rat and mouse sequence.
Lot No. 05K01	Purity Immunogen affinity purified.
Ig type: rabbit IgG	Contents Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN ₃ .
Size: 100µg/vial	
Specificity Human, mouse, rat. No cross reactivity with other proteins.	Storage Store at 4°C for frequent use.
Recommended application <i>ImmunoPrecipitation (IP)</i>	Description This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

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 dUTPase 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 dUTPase 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.

REFERENCE

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