

KD-Validated Anti-DUT Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1511

Product Information

Application	WB, FC
Primary Accession	P33316
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB5240
Calculated MW	26563
Gene Name	DUT
Aliases	DUT; Deoxyuridine Triphosphatase; DUTP Pyrophosphatase; DUTPase; Deoxyuridine 5'-Triphosphate Nucleotidohydrolase, Mitochondrial; DUTP Diphosphatase; EC 3.6.1.23; DUTP Nucleotidohydrolase; DUTPASE; BMFDMS
Immunogen	A synthesized peptide derived from human DUT

Additional Information

Gene ID	1854
Other Names	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial, dUTPase, 3.6.1.23, dUTP pyrophosphatase, DUT

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). 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)