DUT Antibody (C-term)

Catalog_no：	AB1301
Applications：	WB
Reactivity：	H
Category：	抗原抗体
Size：	100μL/50μL
Immunogen：	HUMAN:170-198
Specificity：	This DUT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-198 amino acids from the C-terminal region of human DUT.
Dilution：	WB,1:1000;WB,1:1000;IHC-P,1:10~50;
Purification：	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Other_name：	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial, dUTPase, dUTP pyrophosphatase, DUT
Isotype：	Rabbit Ig
Background：	This gene encodes an essential enzyme of nucleotide metabolism. The encoded protein forms a ubiquitous, homotetrameric enzyme that hydrolyzes dUTP to dUMP and pyrophosphate. This reaction serves two cellular purposes: providing a precursor (dUMP) for the synthesis of thymine nucleotides needed for DNA replication, and limiting intracellular pools of dUTP. Elevated levels of dUTP lead to increased incorporation of uracil into DNA, which induces extensive excision repair mediated by uracil glycosylase. This repair process, resulting in the removal and reincorporation of dUTP, is self-defeating and leads to DNA fragmentation and cell death. Alternative splicing of this gene leads to different isoforms that localize to either the mitochondrion or nucleus. A related pseudogene is located on chromosome 19.
reference：	Takatori, H., et al. Liver Int. 30(3):438-446(2010) Quesada-Soriano, I., et al. Biochimie 92(2):178-186(2010) Chanson, A., et al. Am. J. Clin. Nutr. 89(6):1927-1936(2009) Takacs, E., et al. FEBS Lett. 583(5):865-871(2009) Venkatesan, K., et al. Nat.