

Recombinant Anti-dUTPase Rabbit mAb

Catalog # AP95145

Product Information

Application	WB, FC, IF/IC
Primary Accession	P33316
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	26563

Additional Information

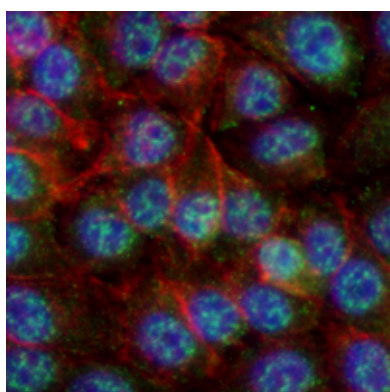
Gene ID	1854
Other Names	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial; dUTPase; dUTP pyrophosphatase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human dUTPase protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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)



Western blot analysis of dUTPase expression in Ramos (A) whole cell lysates. (Predicted band size: 27 kD; Observed band size: 18 kD)



Immunofluorescent analysis of dUTPase staining in Ramos cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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