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Datasheet for ABIN3044322 anti-Deoxyuridine Triphosphatase (DUT) (AA 212-229), (C-Term) antibody

2 Images



Overview

Quantity:	100 µg			
Target:	Deoxyuridine Triphosphatase (DUT)			
Binding Specificity:	AA 212-229, C-Term			
Reactivity:	Human, Rat			
Host:	Rabbit			
Clonality:	Polyclonal			
Conjugate:	Un-conjugated			
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))			
Product Details				
Purpose:	Rabbit IgG polyclonal antibody for Deoxyuridine 5'-triphosphate nucleotidohydrolase,			
	mitochondrial(DUT) detection. Tested with WB, IHC-P in Human, Mouse, Rat.			
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human DUT(212-229aa			
	KKGDRIAQLICERIFYPE), different from the related rat and mouse sequences by two amino			
	acids.			
Sequence:	KKGDRIAQLI CERIFYPE			
Isotype:	lgG			
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse			
	No cross reactivity with other proteins.			
	Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence			
	similarities.			

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Product Details	
Characteristics:	Rabbit IgG polyclonal antibody for Deoxyuridine 5'-triphosphate nucleotidohydrolase,
	mitochondrial(DUT) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
	Gene Name: deoxyuridine triphosphatase
	Protein Name: Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial
Purification:	Immunogen affinity purified.

Target Details

Target:	Deoxyuridine Triphosphatase (DUT)			
Alternative Name:	DUT (DUT Products)			
Target Type:	Viral Protein			
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.			
	Synonyms: Deoxyuridine 5' triphosphate nucleotidohydrolase, nuclear isoform			
	antibody Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial			
	antibody Deoxyuridine triphosphatase antibody dut antibody DUT_HUMAN antibody dUTP			
	nucleotidohydrolase antibody dUTP pyrophosphatase antibody dUTPase antibody FLJ20622			
	antibody			
UniProt:	P33316			
Application Details				
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat			
	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,			
	Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for			

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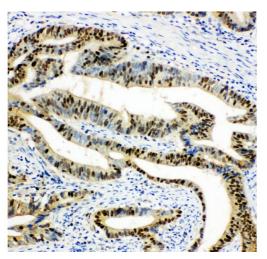
20 mins is required for the staining of formalin/paraffin sections.

Application Details	
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date	12 months

Expiry Date:

12 months

130KD -	1	2
100KD -		
70KD -		
55KD -		
35KD-		
25KD-	-	-
15KD -		



Western Blotting

Image 1. Anti-DUT antibody, Western blotting All lanes: Anti DUT () at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: SMMC Whole Cell Lysate at 40ug Predicted bind size: 27KD Observed bind size: 27KD

Immunohistochemistry

Image 2. Anti-DUT antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue

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