

Rabbit DUT Polyclonal Antibody | anti-DUT antibody

DUT Antibody (C-term)

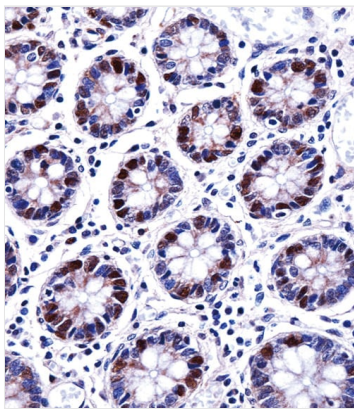
CATALOG # AAA289098	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Rat)	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

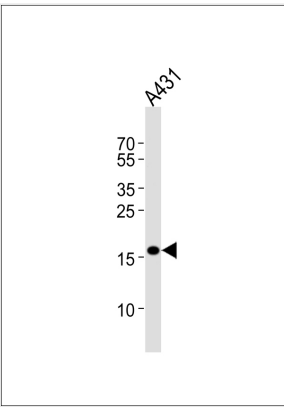
DUT; Polyclonal Antibody; DUT Antibody (C-term); Deoxyuridine 5'-triphosphate nucleotidohydrolase; mitochondrial; dUTPase; dUTP pyrophosphatase; anti-DUT antibody

PRODUCT SPECIFICATIONS

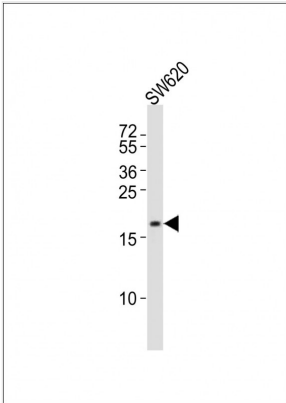
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This DUT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-198 amino acids from the C-terminal region of human DUT.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	170-198
Sequence Length	164
Applicable Applications for anti-DUT antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemisry)
DUT Antibody (C-term) (AAA289098)immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DUT Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of lysate from A431 cell line, using DUT Antibody (C-term). AAA289098 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



WB (Western Blot)
Anti-DUT Antibody (C-term)at 1:1000 dilution + SW620 whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 26. 5 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-DUT antibody	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.
References	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. Methods 6(1):83-90(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	70906441
NCBI GeneID	1854
NCBI Accession #	NP_001020419.1; NP_001020420.1; NP_001939.1

NCBI GenBank Nucleotide #	NM_001025248.1
UniProt Accession #	P33316 ; O14785 ; Q16708 ; Q16860 ; Q6FHN1 ; Q6NSA3 ; Q96Q81 ; A8K650 ; B4DPR5
Molecular Weight	26563
NCBI Official Full Name	deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial isoform 1
NCBI Official Synonym Full Names	deoxyuridine triphosphatase
NCBI Official Symbol	DUT
NCBI Official Synonym Symbols	dUTPase
NCBI Protein Information	deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial
UniProt Protein Name	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial
UniProt Gene Name	DUT
UniProt Synonym Gene Names	dUTPase
UniProt Entry Name	DUT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/dut-antibody-immunohistochemistry-western-blot-elisa/289098>