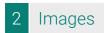
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anti-Deoxyuridine Triphosphatase (DUT) (N-Term) antibody





Publication



Go to Product page

Overview	
Quantity:	100 μL
Target:	Deoxyuridine Triphosphatase (DUT)
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human DUT
Sequence:	AAVLSGPGPP LGRAAQHGIP RPLSSAGRLS QGCRGASTVG AAGWKGELPK
Predicted Reactivity:	Human: 100%
Characteristics:	This is a rabbit polyclonal antibody against DUT. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	Deoxyuridine Triphosphatase (DUT)
Alternative Name:	DUT (DUT Products)

Target Details

Target Type:	Viral Protein
Background:	DUT is an essential enzyme of nucleotide metabolism. This 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. 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 ce
	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.
	Alias Symbols: FLJ20622, dUTPase
	Protein Interaction Partner: GDI2, NUDT18, PLEKHF2, C19orf25, MRPL14, LEMD3, UBL4A,
	RPL38, UBC, CUL3, ESRRG, ESRRA, ESR1, SPATA2, DUT, PPARD, PPARA, CDK1,
	Protein Size: 252
Molecular Weight:	19 kDa
Gene ID:	1854
NCBI Accession:	NM_001025248, NP_001020419
UniProt:	P33316
Application Details	
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 252 AA
Restrictions:	For Research Use only

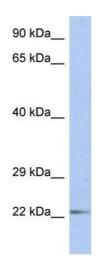
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Publications	

Product cited in:

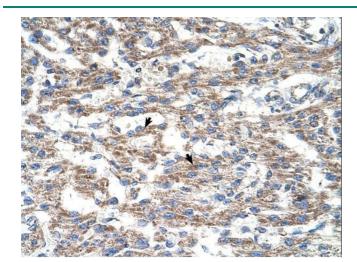
Spellman, Ahmed, Dubach, Gardiner: "Expression of trisomic proteins in Down syndrome model systems." in: **Gene**, Vol. 512, Issue 2, pp. 219-25, (2012) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-DUT Antibody Titration: 1 ug/ml Positive Control: Fetal Small Intestine cell lysate



Immunohistochemistry

Image 2.