

Deoxyuridine Triphosphatase (DUT) Antibody

Catalogue No.:abx002131



Western blot analysis of extracts of various cell lines using DUT Antibody (1/1000 dilution).



Immunohistochemistry of paraffin-embedded Rat spleen using DUT Antibody (1/100 dilution, 40x lens).



Immunohistochemistry of paraffin-embedded Human liver cancer using DUT Antibody (1/100 dilution, 40x lens).



Immunohistochemistry of paraffin-embedded Human appendix using DUT Antibody (1/100 dilution, 40x lens).



Immunofluorescence analysis of U-2 OS cells using DUT Antibody (1/100 dilution, 40x lens). Blue: DAPI for nuclear staining.



DUT Antibody is a Rabbit Polyclonal antibody against DUT. 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.

Target:	Deoxyuridine Triphosphatase (DUT)
Clonality:	Polyclonal
Reactivity:	Human, Mouse, Rat
Tested Applications:	WB, IHC, IF/ICC
Host:	Rabbit
Recommended dilutions:	WB: 1/500 - 1/1000 JHC-P: 1/50 - 1/200 JE/ICC: 1/100 - 1/200 Not tested in IHC-E. Optimal
	dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Recombinant fusion protein corresponding to human DUT
Isotype:	lgG
Form:	Liquid
Purification:	Purified by affinity chromatography.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P33316 (<u>UniProt</u> , <u>ExPASy</u>)
Gene Symbol:	DUT
GenelD:	<u>1854</u>
NCBI Accession:	NP_001020419.1
Molecular Weight:	Calculated MW: 17 kDa/26 kDa Observed MW: 24 kDa
Buffer:	PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.
Concentration:	1 mg/ml



Note:

THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

R