

DUT Polyclonal Antibody

Catalog Number:E-AB-52896

Note: Centrifuge before opening to ensure complete recovery of vial contents.

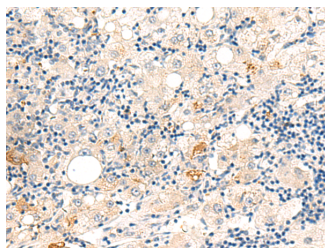
Description

Reactivity	Human, Rat
Immunogen	Fusion protein of human DUT
Host	Rabbit
Isotype	IgG
Purification	Antigen affinity purification
Conjugation	Unconjugated
Formulation	PBS with 0.05% NaN ₃ and 40% Glycerol,pH7.4

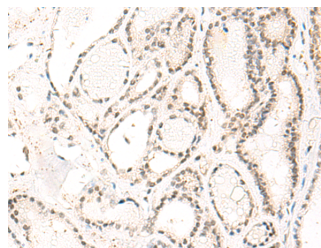
Applications Recommended Dilution

IHC	1:50-1:300
ELISA	1:5000-1:10000

Data



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using DUT Polyclonal Antibody at dilution of 1:60(×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using DUT Polyclonal Antibody at dilution of 1:60(×200)

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

Background

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.

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