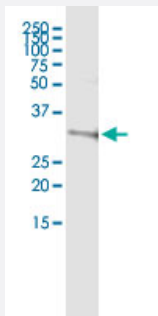


# DUT (Human) IP-WB Antibody Pair

Catalog # H00001854-PW2

Size 1 Set

## Applications



Immunoprecipitation of DUT transfected lysate using rabbit polyclonal anti-DUT and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with mouse purified polyclonal anti-DUT.

## Specification

<b>Product Description</b>	This IP-WB antibody pair set comes with one antibody for immunoprecipitation and another to detect the precipitated protein in western blot.
<b>Reactivity</b>	Human
<b>Quality Control Testing</b>	Immunoprecipitation-Western Blot (IP-WB) Immunoprecipitation of DUT transfected lysate using rabbit polyclonal anti-DUT and Protein A Magnetic Bead ( <a href="#">U0007</a> ), and immunoblotted with mouse purified polyclonal anti-DUT.
<b>Supplied Product</b>	Antibody pair set content: 1. Antibody pair for IP: rabbit polyclonal anti-DUT (300 ul) 2. Antibody pair for WB: mouse purified polyclonal anti-DUT (50 ug)
<b>Storage Instruction</b>	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

## Applications

- Immunoprecipitation-Western Blot

[Protocol Download](#)

## Gene Info — DUT

Entrez GeneID [1854](#)

Gene Name DUT

Gene Alias FLJ20622, dUTPase

Gene Description deoxyuridine triphosphatase

Omim ID [601266](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

dUTP nucleotidohydrolase|dUTP pyrophosphatase|deoxyuridine 5'-triphosphate nucleotidohydrolase

## Pathway

- [Metabolic pathways](#)
- [Pyrimidine metabolism](#)

## Disease

- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)