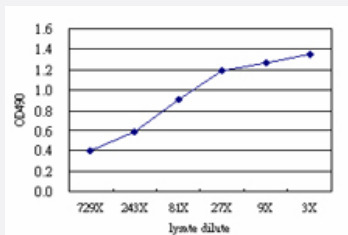


DUT (Human) Matched Antibody Pair

Catalog # H00001854-AP51

Size 1 Set

Applications



Sandwich ELISA detection sensitivity ranging from approximately 243x to 3x dilution of the DUT 293T overexpression lysate (non-denatured).

Specification

| | |
|--------------------------------|--|
| Product Description | This antibody pair set comes with a matched antibody pair to detect and quantify the protein level of human DUT. |
| Reactivity | Human |
| Quality Control Testing | Standard curve using DUT 293T overexpression lysate (non-denatured) as an analyte. Sandwich ELISA detection sensitivity ranging from approximately 243x to 3x dilution of the DUT 293 T overexpression lysate (non-denatured). |
| Supplied Product | Antibody pair set content: 1. Capture antibody: mouse monoclonal anti-DUT (100 ug) 2. Detection antibody: rabbit purified polyclonal anti-DUT (50 ug) *Reagents are sufficient for at least 3-5 x 96 well plates using recommended protocols. |
| Storage Instruction | 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

- ELISA Pair (Transfected lysate)

[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 | <p>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]</p> |
| Other Designations | dUTP nucleotidohydrolase dUTP pyrophosphatase deoxyuridine 5'-triphosphate nucleotidohydrolase |

Pathway

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

Disease

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