DNAxPAb | Hard-to-Find Antibody

DUT DNAxPab

Catalog # H00001854-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human DUT DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MTPLCPRPALCYHFLTSLLRSAMQNARGARQRAEAAVLSGPGPPLGRAAQHGIPRPLSSAGRLS QGCRGASTVGAAGWKGELPKAGGSPAPGPETPAISPSKRARPAEVGGMQLRFARLSEHATAPT RGSARAAGYDLYSAYDYTIPPMEKAVVKTDIQIALPSGCYGRVAPRSGLAAKHFIDVGAGVIDEDYR GNVGVVLFNFGKEKFEVKKGDRIAQLICERIFYPEIEEVQALDDTERGSGGFGSTGKN
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — DUT

Entrez GeneID	1854
GeneBank Accession#	NM_001025248.1
Protein Accession#	NP_001020419.1
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 reac tion serves two cellular purposes: providing a precursor (dUMP) for the synthesis of thymine nucle otides needed for DNA replication, and limiting intracellular pools of dUTP. Elevated levels of dUT P lead to increased incorporation of uracil into DNA, which induces extensive excision repair med iated by uracil glycosylase. This repair process, resulting in the removal and reincorporation of dU TP, is self-defeating and leads to DNA fragmentation and cell death. Alternative splicing of this ge ne leads to different isoforms that localize to either the mitochondrion or nucleus. A related pseud ogene is located on chromosome 19. [provided by RefSeq
Other Designations	dUTP nucleotidohydrolase|dUTP pyrophosphatase|deoxyuridine 5'-triphosphate nucleotidohydrol ase

Pathway

- Metabolic pathways
- Pyrimidine metabolism

Disease

- DNA Damage
- Genetic Predisposition to Disease